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- (71) Applicant (for all designated States except US): **LIFESPAN BIOSCIENCES, INC.** [US/US]; 2401 Fourth Avenue, Suite 900, Seattle, WA 98121 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BURMER, Glenna**, C. [US/US]; 7516-55th Place Northeast, Seattle, WA 98115 (US). **ROUSH, Christine, L.** [US/US]; 5301 Bight Avenue Northeast, Seattle, WA 98105 (US). **BROWN, Joseph, P.**
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(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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MOABS - COMBINATORIAL:

HUMANIZED MOAB:

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LPHIC:

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10 ABSTRACT

[3]

BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkinstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (e.g., adenosine, cAMP, NTPs), biogenic amines (e.g., epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (e.g., angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (e.g., cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (e.g., glutamate, GABA), ions (e.g., calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal. Baldwin, J.M., Curr. Opin. Cell Biol. 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., Nature 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., FASEB J., 9:745-754 (1995); Arvanitakis et al., Nature, 385:347-350 (1997); Murphy, Annu. Rev. Immunol. 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661
5 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

[15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

- [20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.
- 10 [21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide
- 15 sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8)
- 20 tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.
- [22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino
- 25 acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.
- 30 [23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their
5 teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for
20 millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to
25 certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of
30 the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
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423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as
5 indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in
10 the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of
15 the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying
20 putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative
25 activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%,
30 typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. *See, e.g.,* Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, *e.g.,* covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (*e.g.*, negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "**nonconservative**" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, *e.g.*, lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "**Antagonist**" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (*e.g.*, bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. See US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized *de novo* either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (*e.g.*, a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] "Biologically active" or "biologically functional," when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] "Annotation" refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] "BLAST" refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] "BLASTP" refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] "BLASTX" refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] "Buffer" refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] "CDS" refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] "Clone" in molecular biology refers to a vector carrying an insert DNA sequence.

[59] "Cloning" in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (e.g., plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (e.g., a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

- [67] "Conservative changes" to an amino acid sequence, see Analog.
- [68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.
- [69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.
- [70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L). By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).
- [71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.
- [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.
- [73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.
- [74] "FASTA" refers to a modular set of sequence comparison programs used to compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.
- [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a
5 given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences
10 that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to
15 each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology
20 or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay
25 (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second
30 target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] **"Humanized antibody"** refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] **"Identity,"** see Homology.

[84] **"Immunocytochemistry"** refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] **"Immunohistochemistry"** refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] **"Immunolocalization"** refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

30 [87] **"Immunologically active"** refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (*e.g.*, in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (*e.g.*, the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] **"Ligand"** refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] **"Microarray"** refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] **"Mimetic"** refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, etc., described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] **"Modulate"** refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] **"Monoclonal antibody"** refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or
5 homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody
10 preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first
15 described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being
20 obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing
25 RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded
30 or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] **"Oligonucleotide"** refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] **"Operably linked"** or **"operably connected"** indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] **"Orphan receptor"** refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] **"PCR"** or **"polymerase chain reaction"** refers to an *in vitro* method that uses oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] **"Plasmids"** refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will be apparent to the ordinarily skilled artisan in view of the present application.

[107] "Polynucleotide encoding a polypeptide" indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

[108] "Portion" or "fragment" with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

[109] "P-value" is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] "Receptor" refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

[111] "Recombinant" refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic oligonucleotide process.

[112] "Sample" is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to

5 having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal

10 cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma,

15 endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis,

20 rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma),

25 septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or

30 disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (*e.g.*, the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

10

C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (i.e., peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all
5 antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic
10 selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

15 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences,
20 which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type
25 analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (e.g., fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

- 5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing
10 appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] **PROTEIN PURIFICATION:**

- [136] The antigenic peptides and proteins or polypeptides containing them can be purified
15 by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to
20 Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

25

E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND
OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A
PARTICULAR GPCR OR ANTIGENIC PEPTIDE

- 30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 **[139] SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 **[141] LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. *See* U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] IMMUNOFLUORESCENCE ASSAY:

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.*, 53:189-204 (1990); Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)*, 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, 5 epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic 10 peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, *e.g.*, keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or 30 soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, 5 monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N-dioctadecyl-N',N'-bis(2-hydroxymethyl) 10 propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

15 [177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); 20 and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution 25 intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein 30 or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

[180] Monoclonal antibodies are obtained from a population of substantially
5 homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are
identical except for possible naturally occurring mutations that may be present in minor
amounts. For example, monoclonal antibodies can be made using the hybridoma method first
described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant
DNA methods, or otherwise as desired.

10 **[181]** In the hybridoma method, a mouse, or other appropriate host animal, such as a
hamster, is immunized as described herein to elicit lymphocytes that produce or are capable
of producing antibodies that will bind specifically to the antigenic peptide used for
immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then
are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to
15 form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103,
Academic Press (1986).

[182] The hybridoma cells thus prepared are seeded and grown in a suitable culture
medium that preferably contains one or more substances that inhibit the growth or survival of
the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the
20 enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture
medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine
(HAT medium), which substances prevent the growth of HGPRT-deficient cells.

[183] Preferred myeloma cells are those that fuse efficiently, support stable high-level
production of antibody by the selected antibody-producing cells, and are sensitive to a
25 medium such as HAT medium, for example murine myeloma lines, such as those derived
from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell
Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type
Culture Collection, Rockville, MD USA. Human myeloma and mouse-human
heteromyeloma cell lines have also been described for the production of human monoclonal
30 antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody
Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or
5 enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole,
10 preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may
15 be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSETM, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

[187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (*e.g.*, by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli*
25 cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opinion in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

30 [188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al.,
5 Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-
10 5732 (1989), and Alting-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to
15 form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to
20 incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeven et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-
25 397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-
30 immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. See Verhoeyen et al., *supra*; see also Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 V_{HA}, V_{Hb}, V_{Hc}, V_{Hd}, C_{H1}, V_L, and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, see Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] **HUMANIZED AB GENERALLY:**

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeven et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

25 [201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form
5 F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] **BISPECIFIC ANTIBODIES GENERALLY:**

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, e.g., F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

[214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

[218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact
10 antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is
15 then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.

[219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992)
20 describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers
25 (Suppl.) 7:45-50 (1992).

[220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are
30 linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., Bio/Technology 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., J. Immunol. Meth. 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., E.M.B.O. J., 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a C_H 3 domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody
5 of interest and contaminant(s) can be subjected to LPHIC. *See* US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least
10 one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (*e.g.*, less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (*e.g.*, cross-linked agarose or synthetic copolymer material) to which hydrophobic
15 ligands (*e.g.*, alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (*e.g.*, a Phenyl SEPHAROSE™ column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOW™ column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSE™ High Performance column
20 (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGEL™ EMD Propyl or FRACTOGEL™ EMD Phenyl columns (E. Merck, Germany); MACRO-PREP™ Methyl or MACRO-PREP™ t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)™ column (J. T. Baker, New Jersey); and TOYOPEARL™ ether, phenyl, or butyl columns (TosoHaas,
25 PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (*e.g.*, less than about 0.25 M salt). It may not be
30 necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to
5 associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using
10 techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES
15 buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

20 [233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-
25 204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a
30 specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (*e.g.*, a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

[241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

[242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.* 40:219 (1981); and, Nygren, *J. Histochem. and Cytochem.* 30:407 (1982).

[243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, *Monoclonal Antibodies: A Manual of Techniques*, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.,* U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol, A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronic, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

[257] The route of antibody administration is in accord with known methods, *e.g.*,
5 injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., J. Biomed. Mater. Res., 15:167-277 (1981), and Langer, Chem. Tech., 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., Biopolymers,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

**[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-
20 POLYMERS:**

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S-S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 5 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 μ g/kg to up to 10 mg/kg or more, depending on the factors 15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

20 5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological- 25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung 30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 **EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B**

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.
10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 **EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
AFFINITY PURIFICATION OF ANTISERUM**

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of
20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis with the corresponding antigen to confirm the presence and identity of recovered antibody
25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include
30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO[®] TBST (Tris Buffered Saline Containing Tween-S3306), 10X Concentrate, DAKO[®] Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO[®] TBS (Tris Buffered Saline-S1968), and DAKO Tween[®] (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO[®] TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c) replace lid and shake 10 to 20 times, d) pour diluted DAKO[®] TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO[®] Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to 10L mark with deionized H₂O, b) add 2 envelopes of DAKO[®] TBS, c) add 5 ml of DAKO TWEEN[®], and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

[284] Solutions for antibody detection are prepared using Vector[®] Biotinylated antibody (BA series), Vectastain[®] ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector[®] Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

Xylene 5 Minutes
Xylene 5 Minutes
Xylene 5 Minutes
100% Alcohol 2 Minutes
100% Alcohol 2 Minutes
100% Alcohol 1 Minute
95% Alcohol 2 Minutes
95% Alcohol 2 Minutes
70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein

10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide
15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679,
20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086,
25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

a) an isolated antibody according to any one of claims 7-14, and

- b) at least one of a reagent or a device for detecting the antibody.
16. An assay for the detection of a particular GPCR in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 1-5,
- b) contacting the isolated antigenic peptide with the sample under conditions suitable
- 5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the particular GPCR present in the sample, to provide an antibody-bound antigenic peptide, and
- c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the particular GPCR.
- 10 17. The assay of claim 16 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.
18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.
19. The assay of any one of claims 15-18 further comprising, prior to the contacting, obtaining the sample from a human being.
- 15 20. The assay of any one of claims 15-19 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
- 20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.
21. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
22. The isolated nucleic acid molecule according to claim 21 wherein the
- 25 molecule encodes a naturally occurring human antigenic peptide.
23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.
24. The isolated nucleic acid molecule according to claim 23 wherein the antigenic peptide is at least about 95% identical to the antigenic peptide.
- 30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

 a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

 28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

 29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

 31. The method of any one of claims 27-30 wherein the method further comprises:

 c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

 32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

10 38. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

15 41. The method of any one of claims 27-40 wherein the polypeptide is a human protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

25 46. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

30 47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and

b) at least one of a reagent or a device for detecting the antibodies.

49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.

50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.

51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.

52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.

53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.

54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.

55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:

a) an isolated antibody according to any one of claims 49-53, and

b) at least one of a reagent or a device for detecting the antibody.

56. An assay for the detection of a candidate polypeptide in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 43-47,

b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, a
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	SpeciesName
526	160397	Larophilin-2	NP_036434.1	<p>MVSSGCRMRS LWFIIVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDLR CPGSDVIMIE SANYGRITDDK ICDADPFQME NIDCYLPDAF KIMTQRCNNR IQCIWVVTGSD VFDPFCPTGY KYLEVQYECV PYIFVCPGTL KAIVDSPCIY EAEQKAGAWC KDPLQAADKI YFMPWTPYRT DILJEYASLE DFQNSRQITTT YKLPNRVDGT GFVYDGAVF FNKERTRNIV KFDLRTRIKS GEAIINYANY HDTSPYRWGG KTDIDLAVDE NGLWVIYATE QNNGMIVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVVRSVYQD NESETGKNSI DYTYNTRLNR GEYVDVPPFN QYQYIAADV NPRDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTIIST TSITSQKGPMTTIVAGSQEG SKGTPKPPAV STTKIPPTIN IFPLPERFCE ALDSKGIKWP QTORQMMVER PPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFAADVS SSVRLMEQLV DILDAQLQEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMSSEQ AHTATMLLDT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKFPLGIKGA GSSIQLSANT VKQNSRNGLA KLVIYIYRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RYVLTDPVLF TLPHPDNY FNANCSFWNY SERITMMGYWS TQCKLVDTN KTRITTCACSH LTNFAILMAH REIAYKDGCVH ELLLTVITWV GIVISLVCLA ICIFTCFFR GLQSDRNTHI KNLCINLFIA EFIFLIGIDK TKYAIACPIF AGLLHFFFLA AFAWMCLEGV QLYLMLVEVF ESEYSRKYY YVAGYLPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGVTFIIL LNIIFLVITL CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFINEITI VMAVYLTIFN AFQGVFIIF HCAIQKKVRK EYKCFRHSY CCGGLPTESP HSSVKASTTR TSARYSSGTQ SRIRRMWNDT VRKQSESSFI SGDINSTSL NQGHSLNNAR DTSAMDITLP NGNFNNSYSL HKGDYNDVSQ VVDCGLSLND TAFEKMIISE LVHNNLRGSS KTHNLEITLP VKPVIGGSS EDDAIVADAS SLMHSNDNPL ELHHKELEAP LIPQRTSHLL YQPKKKVKSE GTDSYVSQLT AEAEHLQSP NRDSLTYTSM NLRDSPYTES SPDMEEDLSP SRRSENEIDY YKSMNPNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL</p> <p>ccgcggctgg gagacagcga gccagagctc ggggigtgt gcgagagcca cggcggggggc tggggcgagc ggcggcgccalg gctgaaggct gcgctcigca acctgaaga gccgctgcal tgaagagcca gggacagaggga gacggggcg atggcagagc gcggccccc cggctcgccc gggccggccc ggcctggctcg agccggccgga ggaagcggggc tgcctctggc cgtccatgga gcagcgaggaa gggcggaact ccggaagccc gcgtccctgc gccctcggcg cggactcgtg aagggggccga gcccgccggc accgcccagg aagagagccc cgcctcagcc ccgagggccc cggccggccc cggccggggc acatcgagg gcaagcgagg gaagcagccc gcggagagag ccggcgagg agggcgccc agcaatggcc gggccgctcg ggcctcctcg ctctctggc ctggggctgc tggctcggc cgggcccagg ggcggcgccc cgcctcctcg cggcgcccgc tgcagctcgg accggcgaccg tcgggtggac tgcctcggga agggggctgac gggcgggccc gaggggctca gcgctcica ccaagcgctg gatatcagta tgaacaac tactcagttg ccagagag cattaagaa ctctcttt ctgaagagac tacaatggc gggcaacgac ctctcttta tocaccocaaa ggcctctgt ggggtgaag aactcaagt tctaagctc caaataac agtgaatac agtaacacgt gaagccattc gaaggctgag tcttctgag tcttctgag ccatattacc tcatctcccg aggaagcttt tgaaggactt</p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490		A	Homo sapiens

[illegible]

528	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	<p>atgttatttaa taanaataaga agaagaagaataa ataaagctta gtctgtgtc tttaaaaatt aaaaatttta ctgtattcc atctaaggc</p> <p>tttaagaacta ttactgggtc gtagcttaaa gtataatgt ttcaatagt tttaagaata gtagtctaaa tcaatagcaa accacactgoc</p> <p>atattagtta ttctgaatat actaanaaaa tccagctaga ttgcagtta ataatnaaac tglactact gtagctataa tgaatttta</p> <p>ttctatgtaa attatttta gaacacaagt tgggaagt ggtcttgt catttgtt aattaaagt acctactaaa ctatagtggc</p> <p>tgcagtagc agactgttaa atttgttt ataatcttt tgcattgtaa atagtcttg ttgataatg tcaagttaaat aaaaacagaa</p> <p>ttcttgata tcaaatcat gtagttgtta taaaatgg gaagatttta ttacagtgt gttgtzaatt tgaagaagcca actatttaca</p> <p>agttttaaa atgtctatca tglatttta cacatctgat aaatatnaaa tcaataatg tgaagaact cctaattaaa aggttttc</p> <p>canaattcag gttattgaaa attttcatt ttattcatt aaaaactaga ataacagata taaaagtg ttaacttg tctatagg</p> <p>taataataac aaattgtac tcaagtgtt gaattttaa agttctaga aagcaaaaaa a</p> <p>MPGPLGLLCF LALGLLSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA</p> <p>VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLHELQLAG NDLSTHHPKA</p> <p>LSGLKELKV TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPDSFE</p> <p>GLVQLRHL WL DDNSLTEVPV HPLSNLPTLQ ALTLALNKIS SIPDFAFTNL</p> <p>SSLVVLHLHN NKIRGLSQHC FDGLDNLETL DLSYNNLGEF PQAIKARPSL</p> <p>KELGFHSNSI SVIPDGA FDG NPLLRJTHLY DNPLSFVGN ASHNLSDLHS</p> <p>LVRGASMVQ QFPNLGTGVH LESLTLTGTK ISSPNNLQ EQKMLRTLDL</p> <p>SYNNIRDLPS FNGCHALEEI SLQRNIYQI KEGTFQGLIS LRULDLSRNL IHEHSRAFA</p> <p>TLGPITNL DV SFNELTSFT EGPNGNLQKL LVGNFKLKEA LAAKDFVNLR</p> <p>SLSVPYAYQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANVTSTL</p> <p>ENEHSQIII HCTPSTGAFK PCEYLLGSWM IRLTVWFIL VALFNLLVI LTTFASCTSL</p> <p>PSSKLFGLI SVSNLFMGIY TGLIFLDAV SWGRFAEFGI WWETGSGCKV</p> <p>AGFLAVFSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALSAF</p> <p>LGATVAGCFP LFRGEYSAS PLCLPFTGE TFSLGFTVTL VLLNSLAFL</p> <p>MAVYTKLYC NLEKEDLSEN SQSSMIKHVA WLIFTNClFF CPVAFFSFAP LITAISISPE</p> <p>IMKSVTLIFF PLPACLNPLV YVFFNPKFKE DWKLLKRRVT KKS GSVSVSI</p> <p>SSQGGCLEQD FYDQGMYSH LQGNLTVCD C CESFLITKPV SCKHLIKSHS</p> <p>CPALAVASCQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC</p> <p>FYQSRGFPLV RYAYNLPRVK D</p> <p>aacttggaagg gcaagocgtc gccgccaacg aacacotct caagcactt gtagtgaacc ggttgcaag ctgggtgctg</p> <p>gccccccag tcccgggtc tgaaggcagg ccgtcgaact aagcgtgca tccgtgtacc tggagaocct ctgagctdc</p> <p>acctgtact tctgcgtc ctctgcaca gaggccggc gtaggacocct ccaaggatgca ggttcccgaaac agcacaggcc</p> <p>cggacacagc gacgtctgca gctctgcggga accggcgat cgggtgtggcc ctgcocgtgg tgtactgct gggtggcgccg</p> <p>gtcagcalcc cgggcaacct ctctctc tgggtgctgt gccggcgcat ggggccaga tcccgtcgg tcatctcat</p> <p>gataacotc agcgtcacgg acctgatgt ggccagcgtg ttgccttcc aaatctata ccatggcaac cggccacact</p> <p>gggtattcgg ggtgtgctt tgcacgtg gtagcgtggc cttaagca aacatgatt ccaagcatct caatgaacc</p> <p>tgatcacggc tgaagocctt octgggggtc ctgtaccgc tcaagctcaa gctctgggc ccgcctgctt accgtgtggc</p> <p>cggctgtgca gggaacctggc tgcctctt gaaocgocct tcccocctgg cggcgcaocga tctcaotac ccgggtgcaag</p> <p>occtgggcat catcacctgc ttgacgtcc tcaagtggac gtagctccc agcgtggcca tgggtggcgt gttctcttc</p> <p>accatctca tccgtgtt cctatccc ttgcgtatca ccgtggcttg ttacacggcc acctotca agctgtggc</p> <p>cacggagagg ggcacaggcc gggaagcagcc gtaggcgcgc gtaggcgtgg ctgtggcc ttgtacact</p>	P	Homo sapiens
529	160435	LS160435 Receptor	AX147830	<p>atgttatttaa taanaataaga agaagaagaataa ataaagctta gtctgtgtc tttaaaaatt aaaaatttta ctgtattcc atctaaggc</p> <p>tttaagaacta ttactgggtc gtagcttaaa gtataatgt ttcaatagt tttaagaata gtagtctaaa tcaatagcaa accacactgoc</p> <p>atattagtta ttctgaatat actaanaaaa tccagctaga ttgcagtta ataatnaaac tglactact gtagctataa tgaatttta</p> <p>ttctatgtaa attatttta gaacacaagt tgggaagt ggtcttgt catttgtt aattaaagt acctactaaa ctatagtggc</p> <p>tgcagtagc agactgttaa atttgttt ataatcttt tgcattgtaa atagtcttg ttgataatg tcaagttaaat aaaaacagaa</p> <p>ttcttgata tcaaatcat gtagttgtta taaaatgg gaagatttta ttacagtgt gttgtzaatt tgaagaagcca actatttaca</p> <p>agttttaaa atgtctatca tglatttta cacatctgat aaatatnaaa tcaataatg tgaagaact cctaattaaa aggttttc</p> <p>canaattcag gttattgaaa attttcatt ttattcatt aaaaactaga ataacagata taaaagtg ttaacttg tctatagg</p> <p>taataataac aaattgtac tcaagtgtt gaattttaa agttctaga aagcaaaaaa a</p> <p>MPGPLGLLCF LALGLLSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA</p> <p>VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLHELQLAG NDLSTHHPKA</p> <p>LSGLKELKV TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPDSFE</p> <p>GLVQLRHL WL DDNSLTEVPV HPLSNLPTLQ ALTLALNKIS SIPDFAFTNL</p> <p>SSLVVLHLHN NKIRGLSQHC FDGLDNLETL DLSYNNLGEF PQAIKARPSL</p> <p>KELGFHSNSI SVIPDGA FDG NPLLRJTHLY DNPLSFVGN ASHNLSDLHS</p> <p>LVRGASMVQ QFPNLGTGVH LESLTLTGTK ISSPNNLQ EQKMLRTLDL</p> <p>SYNNIRDLPS FNGCHALEEI SLQRNIYQI KEGTFQGLIS LRULDLSRNL IHEHSRAFA</p> <p>TLGPITNL DV SFNELTSFT EGPNGNLQKL LVGNFKLKEA LAAKDFVNLR</p> <p>SLSVPYAYQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANVTSTL</p> <p>ENEHSQIII HCTPSTGAFK PCEYLLGSWM IRLTVWFIL VALFNLLVI LTTFASCTSL</p> <p>PSSKLFGLI SVSNLFMGIY TGLIFLDAV SWGRFAEFGI WWETGSGCKV</p> <p>AGFLAVFSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALSAF</p> <p>LGATVAGCFP LFRGEYSAS PLCLPFTGE TFSLGFTVTL VLLNSLAFL</p> <p>MAVYTKLYC NLEKEDLSEN SQSSMIKHVA WLIFTNClFF CPVAFFSFAP LITAISISPE</p> <p>IMKSVTLIFF PLPACLNPLV YVFFNPKFKE DWKLLKRRVT KKS GSVSVSI</p> <p>SSQGGCLEQD FYDQGMYSH LQGNLTVCD C CESFLITKPV SCKHLIKSHS</p> <p>CPALAVASCQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC</p> <p>FYQSRGFPLV RYAYNLPRVK D</p> <p>aacttggaagg gcaagocgtc gccgccaacg aacacotct caagcactt gtagtgaacc ggttgcaag ctgggtgctg</p> <p>gccccccag tcccgggtc tgaaggcagg ccgtcgaact aagcgtgca tccgtgtacc tggagaocct ctgagctdc</p> <p>acctgtact tctgcgtc ctctgcaca gaggccggc gtaggacocct ccaaggatgca ggttcccgaaac agcacaggcc</p> <p>cggacacagc gacgtctgca gctctgcggga accggcgat cgggtgtggcc ctgcocgtgg tgtactgct gggtggcgccg</p> <p>gtcagcalcc cgggcaacct ctctctc tgggtgctgt gccggcgcat ggggccaga tcccgtcgg tcatctcat</p> <p>gataacotc agcgtcacgg acctgatgt ggccagcgtg ttgccttcc aaatctata ccatggcaac cggccacact</p> <p>gggtattcgg ggtgtgctt tgcacgtg gtagcgtggc cttaagca aacatgatt ccaagcatct caatgaacc</p> <p>tgatcacggc tgaagocctt octgggggtc ctgtaccgc tcaagctcaa gctctgggc ccgcctgctt accgtgtggc</p> <p>cggctgtgca gggaacctggc tgcctctt gaaocgocct tcccocctgg cggcgcaocga tctcaotac ccgggtgcaag</p> <p>occtgggcat catcacctgc ttgacgtcc tcaagtggac gtagctccc agcgtggcca tgggtggcgt gttctcttc</p> <p>accatctca tccgtgtt cctatccc ttgcgtatca ccgtggcttg ttacacggcc acctotca agctgtggc</p> <p>cacggagagg ggcacaggcc gggaagcagcc gtaggcgcgc gtaggcgtgg ctgtggcc ttgtacact</p>	A	Homo sapiens

530	160435	LS160435 Receptor	LR80	<p>gcctc-gcccc caacaacttc ggtgctctctgg cgtcacalcgt gtagccgccttg ttctacggca agagctacta ccaagtgtag aagctcacgc tggctctcag ctgctctaac aactgtctgg acccgtttgt ttactatt ggttccgggg aattccagct gcgccttgccg gaaatatttg gctggccgcg ggtgccccga gacacccctg acacggcccg cgaagctc ttctccggca gtagacagtc cgtgctctcc gtagccgcg cgtcacctga agggatggtag gtagccctga ggtcccgccct ccaagggcag gtaggtgtgt tctgagctcc ggtggccgcag ctgtgtaggc cggggccgca gctggagga tccagggggcg catggagagag ccaaggttgc agaggtttcag gtagacacag tgcgttgct ccaagccctg cagagcccg gtaggggaaag gtagccagc ttattctc ccaagggcag cagagggcacc ggtgtaggtag ggtctccag ctctactag gtagagaa ccaagcaag ccaagcagccg acaaggtgt tgtatccg cagagggctc ctctgctct ctgtgtcag gtagagcttg tgtcacccg cccggctaat ttgtatt tttttagtg agctggggctg tcccccca gctcttaga cactctac acctgtcat accagagagat gtagatcaaa ccaagccccc agctacccg actcggctt tggatctct ctgtggggga actggcgagcc ccattccag ctctctcc tgtgacatc gttcttagc acaactgtcc ataccggag aggtatc aaacggccc accggctaac cgaactgggt ctctctc caggggtct ggtctcgga gacctggag cccattcc agctctct cctggtaga tggctctta gttgtgctc tggctctc cattctc caggggtct ggtctcgga gacctggga cggcgaaat tctgttat tcatcaggg gactgtgt tgcgtgtgt ggaatttc ttacagga gcgcctgggg ctctgcaag tcaagctact tccgtgcca ctctccca cacacacac ccctgtgc cgaatc</p>	P	Homo sapiens
531	160889	Platelet Activating Receptor Homolog (H963)	NM_013308	<p>MQVPNSTGPD NATLQMLRNP AJAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMINLSVTDL MLASVLPFQI YYHCNRHHWV FGVLCCNVVT VAFYANMYSS ILTMTCSVE RFLGVLYPLS SKRWRRRYA VAACAGTWLL LLTALSPLAR TDLTYPVHAL GIITCFDVLK WTMPLPSAMV AVFLFTIFIL LFLFPVTV ACYTATILKL LRTEEAHGRE QRRRAVGLAA VLLFAVTCF APNNFVLLAH IVSRLFYGKS YYHVYKLTLC LSCLNNCLDP FVYFASREF QLRLEYLGC RRVPRDILTDR RRESLFSART TSVRSEAGAH PEGMEGATRP GLQRQESVF gaattc-ggccc aaagagccct atgctctct gtagcttgc agcaagcct gctgagctc acagagata gccacagctg tttggagtg tttgaaagt gattctgaga tcaagctgac tgaagctggaa tcttgcttt atactaac agctacacaa ccttgaggic ttagaaatt ttctttca ataaagcagc atctctact tccctcaaga tgaacaacag tctgtctc tggccagtt ataaagatc ggagccatc acgtattt ttattagt ttcttgtt ggaattatg gaaagtgt tgaaccttg gctttatc agagaatc gaatcacagg tgtgtgaga tctactaat taattgct acagccggt tctgtctac tctgggalla ccaaggaata tttgttga cttgggttg gcaactgga agctgaaagt altccagtc caagtaacag cctgctcat ctatacat altattat caattact cttagcatt gicagcttg accgctgt tcaagctaga ccaagctgca agatctacc aatacagaa cccggattg ccaagaatg altcaagct ggttggttaa tggctctt taaatgtg ccaaatga tgaatccat caagacatc aaggaaagt caaatgtgg tgtatggag ttataaagg aatttgaag aatggcat tgcagaca attcatatg tgaacata tttaaat tctcagccat caithaala tccaatgoc tttgaatgc acagctctac agaaacaaag ataatgaaaa ttacccaaat gtagaaagg ctctacaa catacttia gtagccagc gctacatc altgttgt cttacaca ttgctgaat cccgtatcc ctacagcaga cagaagtcat aactgaatg tcaacagga ttactct caagccaaa gtaggtacac tgcctctggc tgtgtgaac ctgtgttg atctatct gtagctac ctctcaag catctcct aaaggctcat gtagctcat ctagcttg cttacataa agtagacaa gctcagaaa aaaaataaag atgtgaaat aatgcataaa agacagga ttgtgtc ccaattctg cttactgga ccaataagt aattatgt tgaagata aaaaaaaa aaagcggcc gc</p>	A	Homo sapiens
532	160889	Platelet Activating Receptor	NP_037440.1	<p>MTNSSFFCPV YKDLEPFTYF FYLVFLVGII GSCFATWAFI QKNTNHRCVS IYINLLTAD FLTLALPVK IVVDLGVAPW KLKIFHCQVT ACLYNNMYL SIIFLAFVSI DRCLQLTHSC KIYRIQEFGF AKMISTVVWL MVLIMVPNM MPIKDKEK</p>	P	Homo sapiens

535	161214	Galanin Receptor GalR3	NM_003605.1	NP_003605.1	536	161214	Galanin Receptor GalR3	NP_003605.1	537	161221	Urotensin-II Receptor (GPR14)	NM_018949	NP_018949	538	161221	Urotensin-II Receptor (GPR14)	NM_018949	NP_018949
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538	161221	Urotensin-II Receptor (GPR14)	NP_061822.1	P	Homo sapiens
<p>ctgggctgc ttctggctgc gcaagctgctc gccaagctacc accaaggccccc gctggcgccag cggagcggcgc gcatgctaca claatgtaac accctgctca cctacggcaaa cagctggccgc aacccttcc tctacaagct gctacacagg aactaccgg accacttgcg cggccggcgc cggccggcgc gcaagcggggg aggcgggggg cccgttccct ccttgcaagcc ccgcggccgc ttacagcgtc gttcggccgc cttccgtct tcttgagcc cagagccac tgacagccct gtcctggccc cagcggccc ggcagcact ggccggagg gccaagggc cccggcgtga MALTPESPSS FPGLAATGSS VPEPPGPNNA YTLVTCRSL RAVASMYVYV VNLALADLLY TGTTGILLSA MGVGVGWVNA YTLVTCRSL RAVASMYVYV VNLALADLLY LLSIPFIVAT YVTKWHFVGD VGCRLVFLGD FLTMHASIFT LTVMSERYA AVLRPLDTVQ RPKGYRKLAL LGTWLLALLL TLPVMLAMRL VRRGPKSLCL PAWGPRAHRA YLTLLFATSI AGPLLIGLL YARLARAYRR SQRASFKRAR RPGARALRLV LGVLLFWAC FLFWLWQLL AQYHQAFLAP RTARIVNYLT TCLTYGNSCA NPFLYTLTR NYRDHLRGRV RGPSSGGGRG PVPSLQPRAR FQRCSGRSL SCSQPQTDLS VLAPAAPARP APEGPRAPA atggcttgca atggcagtcg ggcagggggg cacttgacc ctgaggaact gaactgact gaagaggcac tgaactcaa gtactgggg cccagcaga cagaagctg cagcccaic tggccacat tggccacat cttcgtggtg ggcgctggtg gcaatgggct gaactgctg gtaactcgc gccaagcgc cagcggcag ctaactact actactct cagctggcc gttcgggacc tgcgtgctc gctgggggc ctgcccctg agctctatga gattgggac aactacccct tctctgggg cgttggggc tgcattcc gcaagcact gttggagtg gcttgctgg cctcagct caacgtcact gcttgagcg tgggaagcta tggcgccg ggcacccac tccagccag gtccatggg accggggccc atggcgccg agtgcctggg ggccttggg gcttgccat gctctgccc ctgcccacaa cagcctgca cggcctcgg cagctggcac tgcctggccg ggcccccag cagactcag ctgtttgcat gctggccgc ccacggggcc lctacaacat ggtatgtag accaaccggc tgcctctt ctgcccgc atggccatca tgaagctgct clactgctc atggcgctg gactgcggcg ggaagaggctg ctgctcagc aggaaggccaa gggcaggggc tctgcagcag caggttccag atacactgc aggcctcagc agcagatcg ggccgggaga caagtgacaa agatgctgt tgcctgggc gttgggttg gcatctgctg ggcggcgctc cagccggac ggctcagtg gtagcgtgctg tcaagtgga cagatggct gcaactggcc ttccagcagc tgcacgtcat ctccggcagc ttctctaac tgggctggc ggcacacccc gttctctata gctcagtc cagccgctc cgaagagact tccagggagc ccttgccctc ggggcccgtc gcaatcgct cagaacccc cagagctccc acagctcagc cagatgac accagggcaga ccctgtgga tggggctcc ctgggcagct gggccacccc cctggctggg aacagaggcc cagaaggcca gcaaggacc gatcactct ga MACNGSAARG HFDPEDLNL TDEALRLKYL GQQTELFPMPI CATYLLIFV GAVGNGLTCL VILRHKAMRT PTNYLFLSLA VSDLLVLL VG LPLELYEMWV NYPFLGVGG CYFRTLLFEM VCLASVLNVT ALSVRYVAV VHPLQARSMV TRAHVRRVLG AVWGLAMLC LPTNSLHGIR QLVHPCRGV PDSAVCMVLR PRALYNMVVQ TTALLFFCLP MAIMSVLYL IGLRLRRRL LLMQEAAGR SAAARSRYTC RLQHQDRGR QVTKMLFVL VVFGICWAPF HADRVMWSV SQWTDGLHLA FQHVHVISGI FFYLGSAANP VL YSLMSSRF RETTQEAALCL GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSVWHPLAG NDPEAQQUET DPS atggctaac ttgacaata cactgaaca ttcaagtag gtagcaacag taccagcact gctgagatt actgaatgt cactaagtg aaattcaat actccctcta tgcacacac tatatctca tatattcc tggctctc gtaacagtg cagccttg ggctctg cgtctatca gcaagaaaaa taagccatc atttcaatga tcaacctc tgggctgac ctgctcag tattatctt</p>					
539	161249	G Protein- Coupled Receptor GPR66	NM_006056	A	Homo sapiens
540	161249	G Protein- Coupled Receptor GPR66	NP_006047.1	P	Homo sapiens
541	161251	Purinergic Receptor P2Y10	NM_014499	A	Homo sapiens

542	161251	Purinergic Receptor P2Y10	NP_055314.1	P	Homo sapiens
<p> aocctccgg atttactatt acatcagcca ccactggcct ttccagagag cctttggct gctcgtctc tacttgaagt atctcaacat gtagccagc attgttcc tgaagtgcat cagttctcaa agtctgtctt ttctctcaa gcccttcagg gccagagact ggaagcgttag gtagcagtg ggcacagtg ctgcctatg gtagcttg tgaggctgct gtttgccat toccatctg agaaagcacag acttaacaa caacagctc tgccttgctg attctggata caagcaaatg aatggcagtg cgttggtcgg gattattaca gttctgagc ttgcaggatt tggatocca gtagatca tgcagtggtg taoclgaaa actactat ccttgagaca gccacacag gtttccaaag gtagatcagta gaggcagaaa gcatcggaga tgggttgca gttcttca tctgtctac toccatcat ataacctta ttttacac catgglaaag gaaacalca ttgagcagtg toccgttgtc cgaatcgcac tggatttoca cctttttgct ctgtccttg caagttctg ctgccttg gttccaat ttattact tatggctca gtagttcgtg accaatat ccggacatggc agttctgta ccgctcccg cctatgagc aaggagagtg gttacat gattggctaa MANLDKYTET FKMGSNSTST AEIYCNVTNV KFQYSLYATT YLIFIPGLL ANSAALWVLC RFISKKNKAI IFMNLVSAD LAHVLSLPLR IYVYISHHWP FQRALCLLCF YLKYLNMYAS ICFLTCTISLQ RCFFLLKPFAR ADWKRRYDV GISAAIWVV GTACLPFPI RSTDLNNKS CFADLYKQM NAVALVGMIT VAELAGFVPI VIIAWCTWK TTISLRQPPM AFQGISERQK ALRMVFMCAA VFFICFTPYH INFIFTYTVK ETIISPCPV RIALYFHPFC LCLASLCCLL DPILYYFMAS EFRDQLSRHG SSVTRSLMS KESGSSMIG MATTSATSTV NISSLATMT TNFTSLTSTV VTTIASLVPS TNSEDDYYDD LDDVDYEESA PCYKSDTTRL AAQVVPALYL LVFLGGLGN ILVVIIVRY MKIKNLINML LNLALSDLL FLTLFPWMH YIGMYHDWTF GISLCKLRG VCYMSLYSQV FCILLTVDR YLAVVYAVTA LRFRTVTCGI VTCVCTWFLA GLLSLPEFFF HGHQDDNGRV QCDPYPEMS TNVWRRAHVA KVMISLILP LLIMAVCYV IRRLLRRPS KKKYKAIRLI FVMVAYFVF WTPYNIIVLLL STFHATLLNL QCALSSNLDL ALLTKTVAY THCCINPVY AFVGEKFRRH LYHFFHTYVA IYLCYIPFL SGDGEGKEGP TRI ggcagaaacc cgaatgaccc cggccacagg ggtcccccga cctggccgct cctggcggcg ggcctggggct ccggggcactc gggctggcc occalggctt cggcccgagg gaaactgagc gctggggccgg gctggggggg gcccggccgg gccggcgctga ggaacctgac ctctccccc gcccggaccg cgtcccgct cccggccccc tggggagagc cctggccggc cccggccccc ggcacccgt toctgacgg gccctggggcc gggcgctct ggtcgctggc ctacggcgcc gttggggccg tggcggggct cggcaacctc gttgggtatct gtagctggct gggccacaa cgcagcgga cggctaccaa ctcttctc gttgaacctgg ccttcggga cggcccgcat agcgcgctca acggcgctgt caactcalt tacggcgctc acgggagagtg gttactggc gccaatct ggcgttoca gaaactcttcc ccatcaaccg ccggttggc cagctatctac tocalgacgg ccalcggggt ggaacagatc atggccalta ttgaacccct gaaagccagg ctgtctgcca cgggcccaccg galcgtcatt ggaagctat ggaattctggc atttactt gcaattctc agttctgta ttccaaaac aaggtcaltg cgggcgggtac tctttgctac gttgcagtggc cagaaaggtc aaggcaacat ttacgttacc acatgaltgt caltgctctg gttgactgct ttcttgct caltatgggc altacattaca ccatagttggt aatcacgctc tggggagagggg agttccagg agaacaccttg gaaacagttac aggtgagagct gaaagggccag ggaagaggtg taanaatga gttactgt gttgtgact ttgccatctg ctggctggcc tctacatct acttactt caccggccatc talcagcagc tgaacaggtg gaaataacac cagcaggtct acctggccag ctatctggctg gttactgagct cgaacalgtia caacccatc alttactgt gttgaaataa gtagaatttg gttggggcttca agagggggct cggctgggtg ctttactt accgtctcag ctacggagag ctgggagctca aagccacag gttccacca atgggagagta gtaggcttala catcagttaca agaatggagt ccaltgagcgt ggtattctgac toaacagtg gggagacagtc cagttccatg caaccagaa gtagggggagac caagagagctia </p>					
543	161293	G Protein- Coupled Receptor Ls161293 [Herpes virus]	NP_042597.1	P	Equine herpesviri s 2
544	177147	Neuromedin K Receptor-Like (NK-4R)	NM_006679	A	Homo sapiens

[illegible]

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	NP_006670.1	<p>taaataat taaaaatcat atgaaaaat MASPAGNLSA WPGWGWWPPPA ALRNLTSPPA PTASPPSPAPS WTPSPRPQPA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIVIVLAHKKR MRTVTNSFLV NLAFADAAMA ALNALVNFY ALHGEWYFGA NYCRFQNFPP ITAVFASIYS MTAIAVDRYM AIDPLKPRLL SATATRIVIG SIWILAFLLA FPQCLYSKJK VMPGRTLCTV QWPEGSRQHF TYHMMIVLV YCFPLLMGI TYTIVGITLW GGEIPGDTCD KYQEQLKAKR KVKMMIUV VTFaicwlpY HIYFILTAIY QQLNRWKYIQ QVYLASFwLA MSSTMVNPPI YCCLNKRFRFA GKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVFDS NDGDSARSSH QKRGITTRDVG SNVCSRRNSK STSTTASFVS SSHMSVEEGS</p>	P	Homo sapiens
546	177168	Cysteinyl Leukotriene CYSLTI Receptor	NM_006639	NM_006639	<p>atggatgaaa caggaaaatc gacagatcct tctgccaat gocatgacac tatgtatgac tccgcaatc aagigtatic caccitgtac tctatgact ctgtgttagg cttctggc aatgtgttg tgcctatgt cctcataaaa accatacaca agaagtcagc ctccaagta tacaiganta attagcagt agcagaatca cttgtgtgt gacacatgoc tctc-gtgg gctatnag ttcaaaaagg cattggctc ttgggtgact tctgtgtcgg ctcagacacac tatgtgttg atgtcaacct ctatgtgac aiccttta tgaacagcat gtagcttttc cgggtgcatg caatgttt ttccatccag aacatnaat tggitacaca gaaaaaagg accgtttgtgt ggtgtgtgtat tggatttt gtgatttga ccagtctoc atttcaatg gocaacacac aaaaagatga gaaaaataat accaagtgct ttgagccccc acaaagacaat caaactaaaa atcatgttt ggtctgtgcat tatgtgtcat tgtttgtgg cttaacatc cctttgtta tatatgt ctgttacaca atgatcatt tgaacttact aaaaaaatca atgaaaaaaa atctgtacaa gctataaggaa tcatatggt cgtgacccgt gctttttag tcaatgtcat gcatatcat attcaacga ccatcaacct tcatittta cacaatgaaa ctataaccg tgattctgt cttagaatgc agaagtcctg ggtcataacc ttgtctgtgg ctgcatccaa tigtgtctt gacccctcct tatattctt ttctgggggt aactttagg aagggctgtc tacattcaga aatgcatct tgcacaggt gacttatga cccaagaaaga aggcctctt gccagaaaaa ggaagaaaga tatgtaaagt atag MDETGNLTVS SATCHDTDD FRNQVYSTLY SMISVVGFFG NGFVLYVLK TYHKKSAPQV YMINLA VADL LCVCTLPLRV VYVYHKGIWL FGDFLCRLST YALYVNLVCS IFMTAMSF RCIAIVFPVQ NINLVTKKA RFVVCVGIWF VILTSSPFLM AKPQKDEKNN TKCFEPPQDN QTKNHVL VLH YVSLFVGFII PFVIIVCYT MIIL.TLLKKS MKKNLSSHKK AIGMIMVVTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMOKSVVIT LSLAASNCFF DPLL YFFSGG NFRKRLSTFR KHSLSSTVTV PRKKASLPEK GHEICKV</p>	A	Homo sapiens
547	177168	Cysteinyl Leukotriene CYSLTI Receptor	NP_006630.1	NP_006630.1	<p>ccacgcgtcc ggcgggtga cggctgcaccc ggcagcggct caggctccgg ctactctcc gctgtcagcag ccggcgctgccc ggcccccactg ggtctggalc cggcccccggc cccctcgggca ccgctgtctc tggcccccggc cccggccccc cggaccatgc gctggggccc ccaggggggaa acccgacccc gccaaggggcc cgcacaagatagc aggtctccccc gccaaggggccc ctcccggccc cccaagctctc ggccggccccc ctggcccccggc tcccggggccc gctgtgagctt gctggggggccat ggagcgcgcgcg ccggccgggacg ggccggctgaa cgtctgggggg gctgtgggggg gctgtggggg ggcggcggggc gctctcgggc agctgggac agctgggac gctgtgtgtgg ccggcgctat gctgtgtgtc atcggtggca cgggtgtggg caatgcgctg gctatgtgtc cctcgtggg cgactgtgac ctcc-gcaacc agaacacti cttcgtctc aaactgggca tcccgacti cctcgtggg gctctgtga tccactgtga tgaactac gttgtgtgac gcccgtgtgac ctccgtgggccc ggcctctgtga agctgtgtgt gttgtgtgtgac taactgtgt gcaactctc tgccttcaac atcggtgtca tcaagatga ccggctctgtc tgggtgtgtc gtagcgggtc ataccggggc cagcagggggc ggcaggtggc aagatgtgtc tgggtgtgt gctgtgtgt gctgtgtgt gacacagcat cctgtgtgtgg gtagactgt cccggggggc ctccatccc gtagggggcact gctatgtgca gttctctac</p>	P	Homo sapiens
548	177191	Histamine H3 Receptor	NM_007232	NM_007232	<p>ccacgcgtcc ggcgggtga cggctgcaccc ggcagcggct caggctccgg ctactctcc gctgtcagcag ccggcgctgccc ggcccccactg ggtctggalc cggcccccggc cccctcgggca ccgctgtctc tggcccccggc cccggccccc cggaccatgc gctggggccc ccaggggggaa acccgacccc gccaaggggcc cgcacaagatagc aggtctccccc gccaaggggccc ctcccggccc cccaagctctc ggccggccccc ctggcccccggc tcccggggccc gctgtgagctt gctggggggccat ggagcgcgcgcg ccggccgggacg ggccggctgaa cgtctgggggg gctgtgggggg gctgtggggg ggcggcggggc gctctcgggc agctgggac agctgggac gctgtgtgtgg ccggcgctat gctgtgtgtc atcggtggca cgggtgtggg caatgcgctg gctatgtgtc cctcgtggg cgactgtgac ctcc-gcaacc agaacacti cttcgtctc aaactgggca tcccgacti cctcgtggg gctctgtga tccactgtga tgaactac gttgtgtgac gcccgtgtgac ctccgtgggccc ggcctctgtga agctgtgtgt gttgtgtgtgac taactgtgt gcaactctc tgccttcaac atcggtgtca tcaagatga ccggctctgtc tgggtgtgtc gtagcgggtc ataccggggc cagcagggggc ggcaggtggc aagatgtgtc tgggtgtgt gctgtgtgt gctgtgtgt gacacagcat cctgtgtgtgg gtagactgt cccggggggc ctccatccc gtagggggcact gctatgtgca gttctctac</p>	A	Homo sapiens

aaatggtgact tctatcaac ggtcttccacc ctggtaagttct ttacggocct cctacagctc acctcttta acctcaagcat ctacctgaac
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ctgcagctc cctggctgt gggccctggc ctggccctgca aacggtagg tcaataaaa gttgtttt ttaaaaaa
aaaaaaa aaaaaaa

Homo sapiens

P

MERAPDGPL NASGALAGDA AAGGARGFS AAWTAVLAAL MALLIVATVL
GNALVMLAFV ADSSLRTQNN FFLNLAISD FLVGAFCLP YVPYVLTGRW
TFGRGLCKLW LVVDYLLCTS SAFNIVLSY DRFLSVTRAV SYRAQQGDTR
RAVRKMLLV VLAFLLYGPA ILSWEYLSGG SSIPEGHYA EFFYNWYFLI
TASTLEFFTP FLSVTFNLS IYLNQRRTR LRLDGAREAA GPEPPEAQP SPYPPPGCWG
CWQKGHGEM PLHRYGVGEA AVGAEGEAT LGGGGGGSV ASPTSSSGSS
SRGTERPRSL KRGSKPSASS ASLEKRMKMV SQSFTQRFRL SRDRK VAKSL
AVVSIIFGLC WAPYTLMLII RAACHGHCV P DYWYETSFWL L WANSVNPV
LYPLCHHSFR RAFTKLLCPQ KLIKQHSSL EHCWK
agggggcct ggcctgac gagggggag agggggct cccctccac cccagggag cagtagagc ctagggcagg
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ccggctgtc ctggggaaaa gtagctgccc ttccagccc ctgagtaggg gggggggggg cagggctgct ggttcccca
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Homo sapiens

A

NP_009163.1

Histamine H3 Receptor

177191

549

NM_020155
G Protein-Coupled Receptor ORF4

177387

550

551	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	P	Homo sapiens	<p>gsgocaaocg ootggggccc ttgocctct ggccttctca ctgctgcccc gcttgocctc agttctcac ctgagocctt atgaaocctt actttgocaa ggggtgtgttc aaaggocaaagg tgaagcgtgc gcccgaagatc agocgaagct tgcctgctgt ccgaaggggcc ttgtgggggg ootgocgtct ctctgtctc gtaaacgtgc tggctccat cggcgcgcgcac agocctggggc ootgctgctt gtcocgcgtcc tggtagacga ctocctgttc gtaatgtgc cgtctctct tgcctgocctgc ctctgocctgc tgcocagcgg ggcocctoca ctatgcaicta ootggagccc aaaggtagggc tgcagcactc atgocacagt gcttttggg tctctggcca ggggttcca ggggttagag</p> <p>MESNL SGLVP AAGLV PALPP AVTLGLTAAY TTLYALLFFS VYAQLWL VLL YGKRLSYQT VFLALCLLWA ALRITLFSFY FRDTPRANRL GPLFWLLYC CPVCLQFTTL TLMNL YFAQV VFKA VKRRP EMSRGLLA VR GAFVGASLLF LLVNVLC AVL SHHRAQP WAL LLVRVLVSDS LFVICALSLA ACLCLVASGR PPLASTWRPR</p>
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	A	Homo sapiens	<p>ctctttaaa ttctttca ggaatgtcac ttcttctoca caatgaatga gttgtcactat gacaagacata tggacttttt ttalaatagg agcaaacatg atactgtoga tgaatgtgaca ggaacaaagc ttgtgatgt ttgtgtgt gggagcgttt tctgocgttt tatttttt tcaattctc tggtaacgc ggcagtgatc azaaacagaa aaatttcatt coctcttctac tactgttgg caattttagc tgcctccgat ttcttgcctg gaaatgctca tgtatctctg atgttaaca caggocccagt ttcaaaact ttgactgtca accgcttggt tctoc-gtcag gggcttctgg acatgagctt gactgttcc ctacocact tgcctgtttat cgcocgtggag aggcacacatgt caatcatgag gatgggggc calagcaaac tgaacaaaaa gagggtgtaca ctgctcatt tgcctgtct gggccatgcc attttatgg gggcgggtccc cacactgggc tggaaatggc tctgcaacat ctctgocctgc tcttccctgg coocattta cagcagagagt tactttgtt tctggacagt gtocaaocctc algoccttcc tcaataggt tgggtgtgac ctggcgatct acgtgtactgt caatgaagaaa aocaaagctt tgttccggca tacaagtggg tccatcagoc gcccggagagac accaatgaag ctatgtgaaga cgggtgtgac tgtctatggg gcttttgtgg tatgtctggac oocggggocctc gttgtctgc tctctgacgg ootgaactgc aggcaggtgtg gcggtgcagca tgtgaaaaag tggttctctc tgcctggcctc gctcaactcc gtcgtgaacc ccatcatca ctctatacag gacgaagaca tgtatggcac catgaagaag atgtatctgt gcttctctca ggaagaacca gaaagggcgc ootctgtcat cocttcaca gtcctcagca ggaatgacac aggcagocag tacaataagg atagtattag ccaagggtgca gcttgcaata aaagcacitc ctaaactct gtagctctc gggocacoca ggtgtgact gcttagg</p> <p>MNECHYDKHM DFFYNRSNTD TVDDWTGTKL VIVLCVGTFF CLFIFFSNL VIAAVIKNRK FHFPPYYLLA NLAADFFAG IAYVFLMFNT GPVSKTLTVN RWFLRQGLJD SSLTASLTNL LVIAVERHMS IMRM RVHSNL TKKRVTLIL LVWAIAIFMG AVPTLGWNCL CNISACSSLA PIYSRSLVF WTVSNLMAFL IMVVVYLRY VYVKRKTNVL SPHTSGSISR RRTPMKLMKT VMTVLGAFVV CWTPLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVNP IYSYKDEDM YGTMKKMICC FSQENPERRP SRPSTVLSR SDTGSQYIED SISQGAVCNK STS</p>
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	P	Homo sapiens	<p>algggcccgc ggcagggcgt gctggcgggt ctctggga ctctactggc cgtggcgcgc ctatcaacg cactggctc gctttgtgc gccaacagcgc ctgaagctccg catctgagoc tcaaggctcc tctgtgtgaa tctgtctctg gggocacgc tgcctggcggc gcttggaatg cocttcacgc tgcctgggtgt gaaagcggggc cggacaacatgt cggcggocggc cgtcalgccaa gtcattggct tcttggaacac ctocctggcgc tccaacgcggc cgtctgaagct gggcggcgcgc agcgcacagacc agtggctggc agtggggctc coactgtcgt acggocggagc ootggcgacgc cgtatggocg gctctgtct ggggtgtgtcc tggggacagt cggctggocct ctacggcgt gcaatggct gctcgtggctc tggcacaagc agoccttgc cgttctgttc gctgtggocctc ootggocggagc ctgagcgctc ggccttggca gctcttggca tggocgtcca tggcgtggc tctgtggctgc cgtctggcgg gctctgtctc acctggctcc aggtggcagccg ggtgggcacgc agacactgoc agcgtcalgga caocgtcac atgaaggcgc</p>
554	189873	G Protein-Coupled Receptor GPR78	AF411107	A	Homo sapiens	

555	189873	G Protein- Coupled Receptor GPR78	CAC34041.1	P	Homo sapiens	<p>tcgocctgct cgcgcacatg caocccatg tgcggcacgg ctgcctcalt cagcagaagc ggccgcgcgca ccgcgcacac aggaaatg gcattgctat tgcgccttc ctaltctgt ttgcoccgta tgcaltgac aggcctggcgg agctctggcc cttcgtcac gtagacgcc agtggggcat cctcagcaag tgcctgact acagcaagc ggtagccgac ccgttcact actctgct ccgcggccg ttccggcaag tctggccgg catgggac cggctgctga agagaaccc gcgcacgca tocaccatg acagtctct ggatgggg accatggcg accagctgct gaagagaac ccgcgcacg cgtcaccca caacgctct ggagacacag agaatgct ctgcctgac cagacact ga MGPGEALLAG LLVMVLAVL LSNALVLLCC AYSALRTRA SGVLLVNLSL GHLLAALDM PFTLLGVMRG RITPSAPGACQ VIGFLDTFLA SNAALSVAAL SADQWLAVGF PLRYAGRLP RYAGLLGCA WQSLAFSGA ALGCSWLGYG SAFASCSRLP PEPERPRFA AFTATLHVG FVLPLAVLCL TSLQVHRVAR RHCQRMDTVT MKALALLADL HPSVRQRCLL QQKRRHRAT RKIGIAIATF LICFAPYVMT RLAEVVPFT VNAQWGLSK CLITYSKAVAD PFTYSLRRP FRQVLAGMVH RLLKRTPPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH</p>
556	189874	Neuromedin U Receptor 2	NM_020167	A	Homo sapiens	<p>atggaaaac ttacgaatgc ttcttgatc tacagcaga aactagaaga tccattcag aaacactga acagcacaga ggagatctg gcttctct ggggactcgg gcgcagccac ttcttctcc ccgtctctg ggtagatg ccaatung tggtaggggt caatggcaat gtcctgggt gcttgatg tctgcagcac caggctatga agagccac caactact ctctcagcc tggcggtctc tgacctctg gctctgctc ttggatgccc ccgtggagtc tatgagatg ggcgcaacta cctctctg ttccggccgg tggcgctga ctcaagacg gcctcttg agaccgtg ctgcctcc atctcagca tcaacaccgt cagcgtaggag cgtcagcgg ccattcaca cccgttcgg gcacactgc agagacacgg gcgcggggcc ctacggatcc tcggcatcgt ctggggcttc tccgtctc tctccggc caacacagc alccatggca tcaatgcca ctactcccc aatgggtccc tgggtccagg ttgcgcac ttgatggca tcaagcccat ggtagctac aattcaca tccagtcac ctctctcta ttctactcc tcccatgac tgcaltcgt gtcctact accatggc actcagca aagaagaca aatcttga ggcaatgaa gggaatgcaa atattcaag aactcagca aatcagctc gtttgctg gtttagt ttgtatctg ttggccccc ttcacatg accgactct ctacgttt ggtaggag ggagtgatc ccgtgctg gtttcacac tgcctcact ggtagcgt gtctctct acctgagctc agctgctac ccattact alaaactact gtcctggccg ttccagcag catccagaa tgcattct tcttcaca aacatggca ctccagcat gaacacagt tgcacatgc ctaggggaac altctctga cagatgcca cttgtaggag ctgacccaag atataggct ccattccca tgcagtcat ccattcaca ctctcact ccaacagcc tcttagta acagatgca agacaact atcaagctt ccattcaca aaaaactga MEKLQNASWI YQKLEDPFQ KHLNSTEYL AFLCGPRRSH FFLPVSVVYV PIFVVGIGN VL VCLVILQH QAMKTPITNY LFS LAVSDLL VLLGLMPLEV YEMWRNYPFL FGPVGCYFKT ALFETVCFAS ILSITVSVE RYVAILHPFR AKLQSTRRA LRILGIWGF SVLFLPNTS IHGKFHYFP NGSLVPGSAT CTVIKPMWY NFIQVTSFL FYLLPMTVIS VLYYLMALRL KDKKSLEADE GNANIQRPCR KSVNKMFL VL VFAICWAP FHIDRLFFSF VEEWSESAA VFNLVHVVS G VFFYLSSAVN PIYNLLSRR FQA AFQNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFVE LTEDIGPQFP CQSSMHNSHL PTALSSEQMS RTNYQS FHN KT</p>
557	189874	Neuromedin U Receptor 2	NP_064552.1	P	Homo sapiens	
558	189884	G Protein- Coupled Receptor	LG94108	A	Homo sapiens	<p>atgttgag ctgccttgc agactaac tcaagcaga tgaatgct ctgtctac ctccattg ccggaggga cctgcctct gattccagg actgagaagac calcatccgg gctctctg tggctctg cctgtgggc ttgtaggaa acctgtgt</p>

Ls189884

559 189884 G Protein- ENSMPRT1140 P Homo
Coupled Receptor 67 sapiens
Ls189884

gatttggcattc ctctcttaca atgcttgggaa agtgaagaagoca locattgaatoc actoccttgat tctgaatctc agcttggctg atctctctocct
octgctgattt tctgcaocta tocgagcttac gggcgctactc aaaaagtttt ggggacttggg ctgggtttggc tgcgaagttctt ctgaagttggt
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aaocagctc tccctctct ggcgaagggga aaactgagga ggtcagaggtt occatcttc ctgacgtaga gcaagtttgg
catgagaggg acacaagctc tctgtacag gacatgac ctatoccttg ggaacatgaa gattcaagagga cagggtgaggg
tgttaaatag

560 189895 G Protein- NM_031936 A Homo
Coupled Receptor GPR61 sapiens

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tgcagttggg gttccggaggg tggggctacg gtagttgtt tgggaatctg tgggaatctt ctcatgtctc ctgctggact
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tccagggcag atag

561 189895 G Protein- NP_114142.1 P Homo
MESSPIPQSS GNSSTLGRVP QTPGPSTASG VPEVGLRDVA SESVALFFML

565	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	CAC38933.1	<p>ggccacccgg gcagctggcc ccacggaaagc acggctcagc acgtgggtggg gcgcaccac ctacaggtag cgtgtgagtg cgatgctgt gaggaaagaca acgctggccg tgggttgggt ggacagcatg aagagggttga ctttgcaggc agcagoccca aagccocagg tctatggag gaggtagtag tccagcgga ggggcagggt gctgatcagg aggaagttag cggccaacag gctgacagg aacaccgtgt tggaggtcca gggccgctg tggatgcaga agatgaagag ggcacaaatg ttocccaoca ggccacggac aaactocagg gccaggatg ggcacaggaa ggacagatcc agcgaggaaag aggtgggggt gcaggggccct ccaggaggcc cccacacagt ggaaggc</p> <p>MELHNLSSPS PSLSSSVLPP SFSPSPSSAP SAFTTVGGSS GGPCHPTSSS LVSAFLAPIL P Homo sapiens</p> <p>ALFVLGLVG NSLALFICI HTRPWTSNTV FLVSLVAADF LLISNLPURV DYLLHETWR FGAAACKVNL FMLSTNRTAS VVELTAIALN RYLKVVQPHH VLSRASVGAA ARVAGGLWVG ILLNGHLLL STFGSPSCLS YRVGTKPSAS LRWHQALYLL EFFPLALIL FAIVSIGLTI RNRGLGGQAG QRAMRVLAM VVAVYTICFL PSIFGMASM VAFWLSACRS LDLCQLFHG SLAFTYLSNV LDPVLYCFSS PNLHQSRAL LGLTRGRQGP VSESSYQPS RQWRYREASR KAEAGKLV QGEVSLKEG SSQG</p>
566	189904	Purinergic Receptor P2U2 (GPR91)	NM_033050	<p>ggatagggt taactcagca gaatttgg aacaactag acatgctggg gatcatggca tggaaatgcaa ctggcaaaaa ctggctggca gcagaggctg cccgggaaa gtaactcct tccattttt aigggtatga gttcgttgg ggagtccttg gaataacat tgtgtttac ggatacat tctctgaa gaactgggac agcagtaata ttatcttt taactctct gtdctgact tagctttct gtgcaccc ccaatgcta taagggtta tggcaatgga aactggatat agggagact gctctgcata agcaacagt atgtgcttca tggcaactc tatacagca tctcttct cactttatc agcalagatc gataatgat aataagtat cctttccgag aacactctt gcaaaagaaa gagtgtgcta ttaactc ctggccatt tgggtttag taactataga gtaactccc atactcccc ttaataatc tgtataact tgaacatgca ccaatgtaa tggatttga agttctggag acccaacta caactcatt tacagcatg gtctaacat gtgggggtc ctattctc ttgtgtat ggttttct tattacaaga tttctctct cctaaagcag aggaataggc aggtgtctac tgtctggcc ctggaaagc ctctcaact ggtatcatg gcagtggttaa tcttctct gcttttaca cctatcacg tcatgggaa tggaggatc gcttcagcc tggggggtg gaagcagat cagtgcactc aggtgtcat caactctt tactatgta caggccctt ggccttctg aacagtgca tcaacctgt ctctatt ctttgggag atcacticag ggacatgctg atgaatcaac tgaacacaa ctcaatcc ctatcatct ttatgacatg ggctcatgaa ctctactt catcagaga aagtggagg gcttggaaa cagatgtc tacagatga tctgtaagcc agttacagt tggcttaact catagatc aatcagagag tgcacagat ttaacctga tcaagaca agttgaccc agatgtatg aaaaatagg gacgacaga atgtactgt tcttctct aagaattgaa aggaatgaa ctgcttatg ttggcag taaactcaaa atactagga gtataaggct tttctatca gtgcaaaaat ggaatatata taagcaaca agttgtctc attgatcac tggatgatt gtaaaaaa aaaaaaaa</p> <p>MAWNATCKNW LAEEALEKY YLSIFYGIEF VVGVLGNTIV VGYTFSLKN P Homo sapiens</p> <p>WNSSNIYFN LSVSDLAFIC TPLMLIRSYA NGNWTYGDVL CISNRYVLHA NL YTSILFT FISIDRYLII KYPFREHLQ KKEFALLSL AIWVLVLEL LPILPLINPV ITDNGTTCND FASSGDPNIN LIYSMCLTLL GFLPLFVMC FFYKIALFL KQRNRQVATA LPLEKPLNV IMAVVIFSVL FTPYHVMRNV RIASRLGSWK QYQCTQVIN SFYIVTRPLA FLNSVINPVF YELLGDHFRD MLMNQLRHNF KSLTSFSRWA HELLSFREK</p>
567	189904	Purinergic Receptor P2U2 (GPR91)	NP_149039.1	
568	189920	G Protein- Coupled Receptor GPR63 (PSP24)	NM_030784	<p>tggaagcatg ctccctgggc tcttcggcg gcgcgcgc gcctgccttc gcttgagca aaaggactct tgttgaagat A Homo sapiens</p> <p>ggactcatt gtacattc cagaatgat ttocagacc atcaatggga cctgtatcgt cgtctgtg ttgaatgct tgaagaactc ctgcatctct gcttgcact tcatctact tgaacacatg gtctctcgg cagttgtgac tgcgttccat accgggacat ccaacacac</p>

[illegible]

P · Homo sapiens

569 189920 G Protein-
Coupled Receptor
GPR63 (pSP24
beta) NP_110411.1

[illegible]

aactocgctt ctgattgtcc latattgtac ctggaagacg gttttatcac tgcagataa alataccatg gccaaagatc ttggagagaa
 acagaaagcc ttgaatga tictaactg tgcaggggta tictaatt gcttgacc ttatattc agtttctt tagattct
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 gactgaat gcaagtacat cagcaatcc ctgcaatcc caagccacag ggagaaacti gcaaaaaaac acagcttttc
 agttctgctc tatctagc ctatggggaa ttaactct caaagcagga cttattgga gcaattgaa ccagatgat tgaattgac
 atgtccatgt agtaattt ctcaagt

MPANYTCTRP DGNNTDFRYF IYAVTYTVIL VPGLIGNILA LWFYGYMKE P Homo
 TKRAVIFMIN LAIADLLQVL SLPLRIFYYL NHDWPFPGPL CMFCFYLKYY sapiens
 NMYASIVFLV CISVRRFWFL MYPRFHDCK QKYDLYISIA GWLJCLACV
 LFPLRTSDD TSGNRTKCFV DLPTRNVNLA QSVVMMTIGE LIGFVTPLLI
 VLYCTWKTVL SLQDKYPMAQ DLGEKQKALK MILTCAGVFL ICFAPYHFSF
 PLDFLVKSNE KSCLEARVLIHFHVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD
 SIQLHAKSFV SNHTASTMTP ELC

attactgat agtatgat tcaagcagga ttccaaggg ttcaattat gacagcatc ttctgattc ctacaggti attacttcc A
 catggccaaa gtttagaac ttatatag ttggctc ttacagcagc cactaatgg ggcacacaca gaaactgti tcaaaacalc
 atttcagaaa aaagagataa tttagcgt gtagatccti aaagatgag cagtaactta tagaactaag ttgtagagagc taagagagc
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573 190026 G Protein- NP_115942.1
 Coupled Receptor
 JEG18

574 190031 G Protein- AF055084
 Coupled Receptor
 VLGR1

575	190031	G Protein- Coupled Receptor VLGR1	AAD55586.1	<p>ggaggactac acatlgccia cagacactic tggatgtgg tictctgti caltticaac agtctcagg gactttatgt tticatgtt tatttcatt tacacaoca aalgltgtc cctatgaagg ccagtttac tggtaaatg aatgggcalc ctggaccocag cacagccctt ttacgcccg ggaatggaaat goctcttgt ggaagggaana tcaagcaagc caccagaat ctatcgggtg ctatggaga gggtccacct gactgggaga gacatoccti ccaacagggc agtaccgca gccctgattt aaagccaagt ccacaaatg gagccacti cccgtctctt ggaggatag gccagggtc actgatagc gatgaggagt cccaggagt cccaggagt atatgtcat taaacttgg tctgtgtctc agtctcagc ataatgaatc tggtaaggc agocaggagg ggaggacctt gactgactcc cagatcgtgg agctcaggag gataccacti gccacactc accgttagca cctcaciaac cattgactg agcacacti catatttga tcaagtug tgcataaact ctctaagct atccactgt gtaataggaa cctgtgaatt gtaaggag attaataca acgtgattt tgaatttga gataaatha ctgatgat gtaactgaa aattcactg tataagaaag gtagagtcag tttgtatcag taataggat gtcataatc caaggatatt agtggttt taatcalcc taataggcta acattgttta algaaagtaa taatcaataa agcaataggaa tct</p> <p>MQLCIFCCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNISIVRII IMKNDNAEGI P IEFDPKYTAf EVEEDVGLIM IPVVRLHGTY GYVTADFISQ SSSASPGGVD YILHGSTVTF QHQGNLSFIN ISIDDNESE FEEPIELLT GATGGA VLGR HL VSRILIAK SDSPFGVIRF LNOQKISIAN PNSTMILSLV LERTGGLLGE IQVNWETVGP NSQEALLPON RDIADPVSGL FYFGE GEGGV RTHLTYPH EEIEVEETFI IKHL VKGEA KLDSRAKDVt LTQEF GDPN GVVQfAPETL SKKTYSEPLA LEGPLLTTF VRRVKGTfGE IMVYVELSSE FDITEDFLST SGFTIADGE SEASFDVHLL PDEVPEIEED YVIOQVSVEG GAELDLEKSI TWFSVYANDD PHGVfALYSD RQSILIGQNL IRSIQINIR LAGTFGDVAV GLRISSDHKE QPIVTENAER QL VVKDGA TY KVDVVPKKNQ VFLSGSNFT LQLVTVM L VG GRFYGMPTIL QEA KSAVL PV SEKAANSQVG FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTTGYAPG LEIPEFIVVG NMPTILGSLs FSHGEQRKGV FLWTFPSGW PEAFVLHLSG VQSSAPGGAQ LRS GFIVAEI EPMGVfQFST SSRNI VSED TQMRLHVQR LFGHSDLIK VSYQT TAGSA KPLEDFEPVQ NGELFFQKFQ TEVD FEITII NDQLSEIEF FYINL TSVEI RGLQKFDVNW SPRLNLDfSV AVITILDND D LAGMDISFPE TTVA VAVDIT LIPVETESTI YLSTSKTTTI LQPTNVVAIV TEATGVSAIP EKL VTLHGTP AVSEKPDVAT VTANVSHGT FSLGPSIVYI EEMKNGTFN TAEVLRRITG GFTGNV SITV KTFGERCAQM EPNALPRGI YGISNL TWAV EEEDFEEQTL TLFLDGERE RKVS VQILDD DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAAFAMVIT GSDLHNGIIG FSEESQSGL EREGAVMRR LHLIVTRQPNR AFEDVKVFWR VTLNKT VVVL QKDG VNLME E LQSVSGTITC TMGQTKCFIS IELKPEKVPQ VEYFFVELY EATAGAAINN SARFAQKIL ESDQSQSVY FSVGSR LAVA HKKATLSIQ VARDSGTGLM MSYNFSTQEL RSAETIGRTI ISPAISGKDF VITEGILVFE PGQRSTVLDV ILTPETGSLN SFPKRfQIVL FDPKGGARID KVVGTANITL VSDADSQAIW GLADQLHQPV NDDLNRVLH TISMKVATEN TDEQLSAMMH LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKRKDTRGF SHFAEVTENF AFSLLTNVT C GSPGEKSKTI LDSCP YLSIL ALHWYPPQIN GHKFEKGED YRIPERLLD VQDAEIMAGK STCKLVQFTE YSSQWfFISG NNPLTLKNKV LSLSVKGQSS QLLTNDNEVL YRIYAAEPRI IPQTSLSCLLW NQAAASWLSD SQFCKVIEET</p>	Homo sapiens
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576	190168	G Protein- Coupled Receptor GPR58	NM_014626	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMMAASL GTQILFLASA YASQLAEE CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVYA ALFTAALVPL TCLVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMYR HFWMVLV FVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPONGATFP SSGGYGQSL IADEESQEFD DLIFALKITGA GLSVSDNESG QGSQEGGILT DSQIVELRRI PIADITHL atgattcat ttatggcagg atcaatatic atcaaatat ttggcaact ttgcattgata atttcaatt cctacticaa gcagcttcaac acaccaacca acttctcat cctctccatg gccatcacg atttctctt gggaattcac atcaagccat atagattgat cagatcggg gagaactgct ggattttgg gcttaccatt ttgaagatli attatagtti tgaactgag cttagcataa catcaattt tcatcttgc tcaatggcca ttgatagatt ttatgctata tghacocat tacttatic caccaaaata actattccag tcaataaag attgctact ctatgttgg cggtoctgg agctttggc ttcttcaga ggcttatgca gatggaaag agggctatga caatcttgg tctgttoca gtctctggcc agtattgct aacaagctat ggggggaacac ctgtttatg gcagggttct tcaatctgg gtctatgag gtggggattt acggcaaat ttltgcagta tccagaaac atgctatgc calcaataac ttgcgaagaa atcaaatata tcaatggag aaagcaaaaa aagctgcca aactttaaga atagttgag agtttttctt attatgttgg ttcttctt ttctcaaat ttattggat ccttttga acttctac tctgtatg ttgtttgag ccttgcacg gtgttgctat ttiaactoca catgaaatoc gttaalatat gggttctt atoccttgg ttgcagagca ctgaagtaaa ttgtttagg taaaatttc agtctatgt tccaataaac tattttgt atgcaaaaaa aagttgagta g MYSFMAGSIF ITFNGNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF CKIYYSFDLM LSITSIFHC SVAIDRFYAI CYPLLYSTKI TIPVIKRLLL LCWSVPGAF AFGVFEAYA DGIEGYDILV ACSSSCPVMF NKLWGTLFM AGFFTPGSMV VGIYKIFAV SRKHAHANN LRENQNNQVK KDKKAAKTLG IVIGVFLCW FPCFFTILLD PFLNFSTPVV LFDALTWFGY FNSTCNPLY GFFYPWFERRA LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagaccta tccatgttc caaaattgt aanaaagatc ctgtctctcc accaacogct ctttcatgt ccagtgata atgtatttgg ttatgctgg agcatatgt atccatatt cggaaacttg gtaataagg ttccataic gcautcaaa cagcttcat ctccacaaa ctittctgac ctctccatg caacacgga ctttctgctg gggtttgta ttatgcata cagcataatg cgatcaggg agatgtctg gtacttggg gatggcttt gtaaatcca caaagctt gacatgatgc tcaagctgac ctccatttc caactctgt ccatgtctat ttaccgat ttgocgtgt gtaacottt acattacaca accaaaaa cgaactocac cataaagcaa ctgtggcat ttgtctgct agttctgct ctitttct ttgtttatg tcaicigag gcogalgtt ccgggtatga gactataag atactttg ctgttcaa ttcttggcc ctatttca acaattctg ggggcaata ttgttacta cagtttct tacccttggc tccatcatg ttgtaattia ttggcaaat ttatctgtt ccaaacagca tgcctgagtc atcagccatg ttgctgaaaa cacaagggg gcagtgaata aacacatc caagaaaaa gacaggaaag cagcgaagac acttgggtata gtaatggggg ttgtctggc ttgtctgtg ccttttct ttgtctga gatgaoca taccatgct actcaatata ttgactat ttgtgtgct ccgttactt aacttacti gcaacctct tattctgct tttaaatc catgtttca gaaagcattc aagtactatg ttgtcaggaa aatattagc tccattcag aaactgcaaa ttgtttct gtagcatat aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPNTFLI LSMATTDFLL GFVIMPYSIM RSVESWCWYFG	Homo sapiens
577	190168	G Protein- Coupled Receptor GPR58	NP_055441.1	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMMAASL GTQILFLASA YASQLAEE CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVYA ALFTAALVPL TCLVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMYR HFWMVLV FVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPONGATFP SSGGYGQSL IADEESQEFD DLIFALKITGA GLSVSDNESG QGSQEGGILT DSQIVELRRI PIADITHL atgattcat ttatggcagg atcaatatic atcaaatat ttggcaact ttgcattgata atttcaatt cctacticaa gcagcttcaac acaccaacca acttctcat cctctccatg gccatcacg atttctctt gggaattcac atcaagccat atagattgat cagatcggg gagaactgct ggattttgg gcttaccatt ttgaagatli attatagtti tgaactgag cttagcataa catcaattt tcatcttgc tcaatggcca ttgatagatt ttatgctata tghacocat tacttatic caccaaaata actattccag tcaataaag attgctact ctatgttgg cggtoctgg agctttggc ttcttcaga ggcttatgca gatggaaag agggctatga caatcttgg tctgttoca gtctctggcc agtattgct aacaagctat ggggggaacac ctgtttatg gcagggttct tcaatctgg gtctatgag gtggggattt acggcaaat ttltgcagta tccagaaac atgctatgc calcaataac ttgcgaagaa atcaaatata tcaatggag aaagcaaaaa aagctgcca aactttaaga atagttgag agtttttctt attatgttgg ttcttctt ttctcaaat ttattggat ccttttga acttctac tctgtatg ttgtttgag ccttgcacg gtgttgctat ttiaactoca catgaaatoc gttaalatat gggttctt atoccttgg ttgcagagca ctgaagtaaa ttgtttagg taaaatttc agtctatgt tccaataaac tattttgt atgcaaaaaa aagttgagta g MYSFMAGSIF ITFNGNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF CKIYYSFDLM LSITSIFHC SVAIDRFYAI CYPLLYSTKI TIPVIKRLLL LCWSVPGAF AFGVFEAYA DGIEGYDILV ACSSSCPVMF NKLWGTLFM AGFFTPGSMV VGIYKIFAV SRKHAHANN LRENQNNQVK KDKKAAKTLG IVIGVFLCW FPCFFTILLD PFLNFSTPVV LFDALTWFGY FNSTCNPLY GFFYPWFERRA LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagaccta tccatgttc caaaattgt aanaaagatc ctgtctctcc accaacogct ctttcatgt ccagtgata atgtatttgg ttatgctgg agcatatgt atccatatt cggaaacttg gtaataagg ttccataic gcautcaaa cagcttcat ctccacaaa ctittctgac ctctccatg caacacgga ctttctgctg gggtttgta ttatgcata cagcataatg cgatcaggg agatgtctg gtacttggg gatggcttt gtaaatcca caaagctt gacatgatgc tcaagctgac ctccatttc caactctgt ccatgtctat ttaccgat ttgocgtgt gtaacottt acattacaca accaaaaa cgaactocac cataaagcaa ctgtggcat ttgtctgct agttctgct ctitttct ttgtttatg tcaicigag gcogalgtt ccgggtatga gactataag atactttg ctgttcaa ttcttggcc ctatttca acaattctg ggggcaata ttgttacta cagtttct tacccttggc tccatcatg ttgtaattia ttggcaaat ttatctgtt ccaaacagca tgcctgagtc atcagccatg ttgctgaaaa cacaagggg gcagtgaata aacacatc caagaaaaa gacaggaaag cagcgaagac acttgggtata gtaatggggg ttgtctggc ttgtctgtg ccttttct ttgtctga gatgaoca taccatgct actcaatata ttgactat ttgtgtgct ccgttactt aacttacti gcaacctct tattctgct tttaaatc catgtttca gaaagcattc aagtactatg ttgtcaggaa aatattagc tccattcag aaactgcaaa ttgtttct gtagcatat aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPNTFLI LSMATTDFLL GFVIMPYSIM RSVESWCWYFG	Homo sapiens
578	190170	G Protein- Coupled Receptor GPR57	NM_014627	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMMAASL GTQILFLASA YASQLAEE CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVYA ALFTAALVPL TCLVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMYR HFWMVLV FVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPONGATFP SSGGYGQSL IADEESQEFD DLIFALKITGA GLSVSDNESG QGSQEGGILT DSQIVELRRI PIADITHL atgattcat ttatggcagg atcaatatic atcaaatat ttggcaact ttgcattgata atttcaatt cctacticaa gcagcttcaac acaccaacca acttctcat cctctccatg gccatcacg atttctctt gggaattcac atcaagccat atagattgat cagatcggg gagaactgct ggattttgg gcttaccatt ttgaagatli attatagtti tgaactgag cttagcataa catcaattt tcatcttgc tcaatggcca ttgatagatt ttatgctata tghacocat tacttatic caccaaaata actattccag tcaataaag attgctact ctatgttgg cggtoctgg agctttggc ttcttcaga ggcttatgca gatggaaag agggctatga caatcttgg tctgttoca gtctctggcc agtattgct aacaagctat ggggggaacac ctgtttatg gcagggttct tcaatctgg gtctatgag gtggggattt acggcaaat ttltgcagta tccagaaac atgctatgc calcaataac ttgcgaagaa atcaaatata tcaatggag aaagcaaaaa aagctgcca aactttaaga atagttgag agtttttctt attatgttgg ttcttctt ttctcaaat ttattggat ccttttga acttctac tctgtatg ttgtttgag ccttgcacg gtgttgctat ttiaactoca catgaaatoc gttaalatat gggttctt atoccttgg ttgcagagca ctgaagtaaa ttgtttagg taaaatttc agtctatgt tccaataaac tattttgt atgcaaaaaa aagttgagta g MYSFMAGSIF ITFNGNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF CKIYYSFDLM LSITSIFHC SVAIDRFYAI CYPLLYSTKI TIPVIKRLLL LCWSVPGAF AFGVFEAYA DGIEGYDILV ACSSSCPVMF NKLWGTLFM AGFFTPGSMV VGIYKIFAV SRKHAHANN LRENQNNQVK KDKKAAKTLG IVIGVFLCW FPCFFTILLD PFLNFSTPVV LFDALTWFGY FNSTCNPLY GFFYPWFERRA LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagaccta tccatgttc caaaattgt aanaaagatc ctgtctctcc accaacogct ctttcatgt ccagtgata atgtatttgg ttatgctgg agcatatgt atccatatt cggaaacttg gtaataagg ttccataic gcautcaaa cagcttcat ctccacaaa ctittctgac ctctccatg caacacgga ctttctgctg gggtttgta ttatgcata cagcataatg cgatcaggg agatgtctg gtacttggg gatggcttt gtaaatcca caaagctt gacatgatgc tcaagctgac ctccatttc caactctgt ccatgtctat ttaccgat ttgocgtgt gtaacottt acattacaca accaaaaa cgaactocac cataaagcaa ctgtggcat ttgtctgct agttctgct ctitttct ttgtttatg tcaicigag gcogalgtt ccgggtatga gactataag atactttg ctgttcaa ttcttggcc ctatttca acaattctg ggggcaata ttgttacta cagtttct tacccttggc tccatcatg ttgtaattia ttggcaaat ttatctgtt ccaaacagca tgcctgagtc atcagccatg ttgctgaaaa cacaagggg gcagtgaata aacacatc caagaaaaa gacaggaaag cagcgaagac acttgggtata gtaatggggg ttgtctggc ttgtctgtg ccttttct ttgtctga gatgaoca taccatgct actcaatata ttgactat ttgtgtgct ccgttactt aacttacti gcaacctct tattctgct tttaaatc catgtttca gaaagcattc aagtactatg ttgtcaggaa aatattagc tccattcag aaactgcaaa ttgtttct gtagcatat aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPNTFLI LSMATTDFLL GFVIMPYSIM RSVESWCWYFG	Homo sapiens
579	190170	G Protein- Coupled Receptor	NP_055442.1	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMMAASL GTQILFLASA YASQLAEE CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCFIPNVYA ALFTAALVPL TCLVVFVVF IHAYQVKPQW KAYDDVFRGR TNAAEPLIL YLFALISVTW LWGGLHMYR HFWMVLV FVI FNSLQGLYVF MYYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPONGATFP SSGGYGQSL IADEESQEFD DLIFALKITGA GLSVSDNESG QGSQEGGILT DSQIVELRRI PIADITHL atgattcat ttatggcagg atcaatatic atcaaatat ttggcaact ttgcattgata atttcaatt cctacticaa gcagcttcaac acaccaacca acttctcat cctctccatg gccatcacg atttctctt gggaattcac atcaagccat atagattgat cagatcggg gagaactgct ggattttgg gcttaccatt ttgaagatli attatagtti tgaactgag cttagcataa catcaattt tcatcttgc tcaatggcca ttgatagatt ttatgctata tghacocat tacttatic caccaaaata actattccag tcaataaag attgctact ctatgttgg cggtoctgg agctttggc ttcttcaga ggcttatgca gatggaaag agggctatga caatcttgg tctgttoca gtctctggcc agtattgct aacaagctat ggggggaacac ctgtttatg gcagggttct tcaatctgg gtctatgag gtggggattt acggcaaat ttltgcagta tccagaaac atgctatgc calcaataac ttgcgaagaa atcaaatata tcaatggag aaagcaaaaa aagctgcca aactttaaga atagttgag agtttttctt attatgttgg ttcttctt ttctcaaat ttattggat ccttttga acttctac tctgtatg ttgtttgag ccttgcacg gtgttgctat ttiaactoca catgaaatoc gttaalatat gggttctt atoccttgg ttgcagagca ctgaagtaaa ttgtttagg taaaatttc agtctatgt tccaataaac tattttgt atgcaaaaaa aagttgagta g MYSFMAGSIF ITFNGNLAMI ISISYFKQLH TPTNFLILSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF CKIYYSFDLM LSITSIFHC SVAIDRFYAI CYPLLYSTKI TIPVIKRLLL LCWSVPGAF AFGVFEAYA DGIEGYDILV ACSSSCPVMF NKLWGTLFM AGFFTPGSMV VGIYKIFAV SRKHAHANN LRENQNNQVK KDKKAAKTLG IVIGVFLCW FPCFFTILLD PFLNFSTPVV LFDALTWFGY FNSTCNPLY GFFYPWFERRA LKYILLGKIF SSCFHNTILC MQKESE atggatctaa ctatattcc cgaagaccta tccatgttc caaaattgt aanaaagatc ctgtctctcc accaacogct ctttcatgt ccagtgata atgtatttgg ttatgctgg agcatatgt atccatatt cggaaacttg gtaataagg ttccataic gcautcaaa cagcttcat ctccacaaa ctittctgac ctctccatg caacacgga ctttctgctg gggtttgta ttatgcata cagcataatg cgatcaggg agatgtctg gtacttggg gatggcttt gtaaatcca caaagctt gacatgatgc tcaagctgac ctccatttc caactctgt ccatgtctat ttaccgat ttgocgtgt gtaacottt acattacaca accaaaaa cgaactocac cataaagcaa ctgtggcat ttgtctgct agttctgct ctitttct ttgtttatg tcaicigag gcogalgtt ccgggtatga gactataag atactttg ctgttcaa ttcttggcc ctatttca acaattctg ggggcaata ttgttacta cagtttct tacccttggc tccatcatg ttgtaattia ttggcaaat ttatctgtt ccaaacagca tgcctgagtc atcagccatg ttgctgaaaa cacaagggg gcagtgaata aacacatc caagaaaaa gacaggaaag cagcgaagac acttgggtata gtaatggggg ttgtctggc ttgtctgtg ccttttct ttgtctga gatgaoca taccatgct actcaatata ttgactat ttgtgtgct ccgttactt aacttacti gcaacctct tattctgct tttaaatc catgtttca gaaagcattc aagtactatg ttgtcaggaa aatattagc tccattcag aaactgcaaa ttgtttct gtagcatat aa MDLTYTPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPNTFLI LSMATTDFLL GFVIMPYSIM RSVESWCWYFG	Homo sapiens

583	190414	G Protein-coupled Receptor GPR101	CAC33098.1		<p>MTSTCTNSTR ESNSSHTCMP LSKMPISLAH GIIRSTVLVI FLAASFVGNL VLALVLQRKP P</p> <p>QLLQVTNRFI FNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHECTALVSL</p> <p>THLFAFASVN TIVLVSDRY LSHIPLSY SKMTQRRGYL LLYGTWIVAI</p> <p>LQSTPPLYGW GOAAFDERNA LCSMIWGASP SYTILSVVSF IVPLIVMIA</p> <p>CYSVVFCAAR RQHALLYNVK RSHLEVRVKD CVENEDEEGA EKKEEFQDES</p> <p>EFRRQHEGEV KAKEGRMEAK DGSLLAKEGS TGTSESSVEA RGSEEVRESS</p> <p>TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQCSIDLGE DGMFEGEDDI</p> <p>NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAKV IPIIIFSVL SLGPYCFILAV</p> <p>LAVVVDVETQ VPQWVITIII WLFFLQCCIH PYVYGYMHKT IKKEIQDMLK</p> <p>KFFCKEPPK EDSPDLPPT EGGTEGKIVP SYDSATFP</p> <p>taactgtcca ccagaaagga ctcctcttg ggfgagfaga actcttcca ttatagaag aattgaaggc tgaagaatic agcctctatc A</p> <p>atgtggaaca gctctgaagc caactcttcc tgcctaccatg agctctgtct gggtctatctg taigtngcag ttagtctggg</p> <p>gggtggggg gctgagacag gcaacgtggg caatgctc accctactg ccttgccat ccagcccaag ctccgtacc</p> <p>gattcaact gctctatgacc aactcaac tggctgact cctctactg accctctc agcctctc tgggacacc taactccacc</p> <p>tgcactggcg caacggggcg accctctgca gggtattgg gctctctct ttgctcca attctgtct cctctgacc ctcctgctca</p> <p>tcgcactgg accctaccic ccatggcc accctaggct ttccccaa gtttcagtg ccagggagat agtctggca</p> <p>ctgtgagca cctgggtgt gggtctggcg agttgtct cctctggcg latitatal ctgttaccitg latctgacac ctgcaagctt</p> <p>gaaccctacc gtagggcgcc ttaccacc accctaccatg gcatctact tggcttggg ctacagcag ttggcactt ctatgtctc</p> <p>attccacggc aggtcaaacg agcacacacag gcactggagc aatacaagt gggtacagca agcatccact ccaaccatg</p> <p>ggccaggaat gattgaagcca tgcctgtctg ttccagggag ctgagacagca ggttgaacat aggtggagcca agtggaggga</p> <p>tttctctga gccactgact gctgaccca ccagacact ggagggggag tcaatagzag tgggagaccca gattcaacagc</p> <p>aagagagcta agcagatggc agagaaaaag cctccagag catctgcca agccacagcca attaaaggag ccagagagagc</p> <p>tccggatct tcatgggaat tggggaagt gactgaag tgtttgtctg tgttctctg ctgtccctg agctacatcc cctctgtct</p> <p>gctcaact ctggagcca gtagtccagc tcccgggtg gtccatgc ttgtgcca cctccctgg ctcaatggt</p> <p>gcatcaaccc tgtctctat gcaagccatga accgccaati ccgccaagca tatgtctcca tttaaaaag agggcccg</p> <p>agtttccala ggctccalta gaactgtgac ccagtcacc agaatcagg acgtctct cccagcccca agtgggacag</p> <p>taatagaga ataggtgaaa taacacatgt gggtatttc acaacatct cctccagcc tcccaatca agtctctcca tcaatgac</p> <p>aatgttcag ccttagactg ccaagggagt attataat attataaat gattctgtg cttaaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaataa aaaaaa</p> <p>MWNSSDANFS CYHESVLGYR YVAVSWGVMV AVTGTGVMVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPSVDIT YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAGKIVLA LVSTWVVGVA SFAPLWPIYI</p> <p>LVPVCTCSF DRUGRPYIT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLROA SIHSHVART DEAMPGRFQE LDRSLASGGP SEGISEPVS</p> <p>AATTQLEGD SSEVGQINS KRAKQMAEKS PPEAKAQK IKGARRAPDS</p> <p>SSEFGKVTM CFAVLCFAL SYPELLNI LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLY AAMNRQFRQA YGSILKRGR SFHRLH</p> <p>cttggctca gagcaacc agttttctt cctccacag caataatct gacagagac atctctcc agctggagc aagaapacag A</p> <p>aagtctctt acaactatct ctggcactc gctgtgccc acatctgtt cctctttc atagtgtt tggacttct gtaggaat</p> <p>ttatctga acatgcat gctcaggtc ccagacaaga tcatagagt gctgggaatt tcatccatcc acactccat atggattact</p>	Homo sapiens
584	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NM_020370		<p>taactgtcca ccagaaagga ctcctcttg ggfgagfaga actcttcca ttatagaag aattgaaggc tgaagaatic agcctctatc A</p> <p>atgtggaaca gctctgaagc caactcttcc tgcctaccatg agctctgtct gggtctatctg taigtngcag ttagtctggg</p> <p>gggtggggg gctgagacag gcaacgtggg caatgctc accctactg ccttgccat ccagcccaag ctccgtacc</p> <p>gattcaact gctctatgacc aactcaac tggctgact cctctactg accctctc agcctctc tgggacacc taactccacc</p> <p>tgcactggcg caacggggcg accctctgca gggtattgg gctctctct ttgctcca attctgtct cctctgacc ctcctgctca</p> <p>tcgcactgg accctaccic ccatggcc accctaggct ttccccaa gtttcagtg ccagggagat agtctggca</p> <p>ctgtgagca cctgggtgt gggtctggcg agttgtct cctctggcg latitatal ctgttaccitg latctgacac ctgcaagctt</p> <p>gaaccctacc gtagggcgcc ttaccacc accctaccatg gcatctact tggcttggg ctacagcag ttggcactt ctatgtctc</p> <p>attccacggc aggtcaaacg agcacacacag gcactggagc aatacaagt gggtacagca agcatccact ccaaccatg</p> <p>ggccaggaat gattgaagcca tgcctgtctg ttccagggag ctgagacagca ggttgaacat aggtggagcca agtggaggga</p> <p>tttctctga gccactgact gctgaccca ccagacact ggagggggag tcaatagzag tgggagaccca gattcaacagc</p> <p>aagagagcta agcagatggc agagaaaaag cctccagag catctgcca agccacagcca attaaaggag ccagagagagc</p> <p>tccggatct tcatgggaat tggggaagt gactgaag tgtttgtctg tgttctctg ctgtccctg agctacatcc cctctgtct</p> <p>gctcaact ctggagcca gtagtccagc tcccgggtg gtccatgc ttgtgcca cctccctgg ctcaatggt</p> <p>gcatcaaccc tgtctctat gcaagccatga accgccaati ccgccaagca tatgtctcca tttaaaaag agggcccg</p> <p>agtttccala ggctccalta gaactgtgac ccagtcacc agaatcagg acgtctct cccagcccca agtgggacag</p> <p>taatagaga ataggtgaaa taacacatgt gggtatttc acaacatct cctccagcc tcccaatca agtctctcca tcaatgac</p> <p>aatgttcag ccttagactg ccaagggagt attataat attataaat gattctgtg cttaaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaataa aaaaaa</p> <p>MWNSSDANFS CYHESVLGYR YVAVSWGVMV AVTGTGVMVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPSVDIT YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAGKIVLA LVSTWVVGVA SFAPLWPIYI</p> <p>LVPVCTCSF DRUGRPYIT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLROA SIHSHVART DEAMPGRFQE LDRSLASGGP SEGISEPVS</p> <p>AATTQLEGD SSEVGQINS KRAKQMAEKS PPEAKAQK IKGARRAPDS</p> <p>SSEFGKVTM CFAVLCFAL SYPELLNI LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLY AAMNRQFRQA YGSILKRGR SFHRLH</p> <p>cttggctca gagcaacc agttttctt cctccacag caataatct gacagagac atctctcc agctggagc aagaapacag A</p> <p>aagtctctt acaactatct ctggcactc gctgtgccc acatctgtt cctctttc atagtgtt tggacttct gtaggaat</p> <p>ttatctga acatgcat gctcaggtc ccagacaaga tcatagagt gctgggaatt tcatccatcc acactccat atggattact</p>	Homo sapiens
585	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NP_065103.1		<p>taactgtcca ccagaaagga ctcctcttg ggfgagfaga actcttcca ttatagaag aattgaaggc tgaagaatic agcctctatc A</p> <p>atgtggaaca gctctgaagc caactcttcc tgcctaccatg agctctgtct gggtctatctg taigtngcag ttagtctggg</p> <p>gggtggggg gctgagacag gcaacgtggg caatgctc accctactg ccttgccat ccagcccaag ctccgtacc</p> <p>gattcaact gctctatgacc aactcaac tggctgact cctctactg accctctc agcctctc tgggacacc taactccacc</p> <p>tgcactggcg caacggggcg accctctgca gggtattgg gctctctct ttgctcca attctgtct cctctgacc ctcctgctca</p> <p>tcgcactgg accctaccic ccatggcc accctaggct ttccccaa gtttcagtg ccagggagat agtctggca</p> <p>ctgtgagca cctgggtgt gggtctggcg agttgtct cctctggcg latitatal ctgttaccitg latctgacac ctgcaagctt</p> <p>gaaccctacc gtagggcgcc ttaccacc accctaccatg gcatctact tggcttggg ctacagcag ttggcactt ctatgtctc</p> <p>attccacggc aggtcaaacg agcacacacag gcactggagc aatacaagt gggtacagca agcatccact ccaaccatg</p> <p>ggccaggaat gattgaagcca tgcctgtctg ttccagggag ctgagacagca ggttgaacat aggtggagcca agtggaggga</p> <p>tttctctga gccactgact gctgaccca ccagacact ggagggggag tcaatagzag tgggagaccca gattcaacagc</p> <p>aagagagcta agcagatggc agagaaaaag cctccagag catctgcca agccacagcca attaaaggag ccagagagagc</p> <p>tccggatct tcatgggaat tggggaagt gactgaag tgtttgtctg tgttctctg ctgtccctg agctacatcc cctctgtct</p> <p>gctcaact ctggagcca gtagtccagc tcccgggtg gtccatgc ttgtgcca cctccctgg ctcaatggt</p> <p>gcatcaaccc tgtctctat gcaagccatga accgccaati ccgccaagca tatgtctcca tttaaaaag agggcccg</p> <p>agtttccala ggctccalta gaactgtgac ccagtcacc agaatcagg acgtctct cccagcccca agtgggacag</p> <p>taatagaga ataggtgaaa taacacatgt gggtatttc acaacatct cctccagcc tcccaatca agtctctcca tcaatgac</p> <p>aatgttcag ccttagactg ccaagggagt attataat attataaat gattctgtg cttaaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaataa aaaaaa</p> <p>MWNSSDANFS CYHESVLGYR YVAVSWGVMV AVTGTGVMVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPSVDIT YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAGKIVLA LVSTWVVGVA SFAPLWPIYI</p> <p>LVPVCTCSF DRUGRPYIT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLROA SIHSHVART DEAMPGRFQE LDRSLASGGP SEGISEPVS</p> <p>AATTQLEGD SSEVGQINS KRAKQMAEKS PPEAKAQK IKGARRAPDS</p> <p>SSEFGKVTM CFAVLCFAL SYPELLNI LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLY AAMNRQFRQA YGSILKRGR SFHRLH</p> <p>cttggctca gagcaacc agttttctt cctccacag caataatct gacagagac atctctcc agctggagc aagaapacag A</p> <p>aagtctctt acaactatct ctggcactc gctgtgccc acatctgtt cctctttc atagtgtt tggacttct gtaggaat</p> <p>ttatctga acatgcat gctcaggtc ccagacaaga tcatagagt gctgggaatt tcatccatcc acactccat atggattact</p>	Homo sapiens
586	190419	G Protein- Coupled Receptor Ls190419	AJ303165		<p>taactgtcca ccagaaagga ctcctcttg ggfgagfaga actcttcca ttatagaag aattgaaggc tgaagaatic agcctctatc A</p> <p>atgtggaaca gctctgaagc caactcttcc tgcctaccatg agctctgtct gggtctatctg taigtngcag ttagtctggg</p> <p>gggtggggg gctgagacag gcaacgtggg caatgctc accctactg ccttgccat ccagcccaag ctccgtacc</p> <p>gattcaact gctctatgacc aactcaac tggctgact cctctactg accctctc agcctctc tgggacacc taactccacc</p> <p>tgcactggcg caacggggcg accctctgca gggtattgg gctctctct ttgctcca attctgtct cctctgacc ctcctgctca</p> <p>tcgcactgg accctaccic ccatggcc accctaggct ttccccaa gtttcagtg ccagggagat agtctggca</p> <p>ctgtgagca cctgggtgt gggtctggcg agttgtct cctctggcg latitatal ctgttaccitg latctgacac ctgcaagctt</p> <p>gaaccctacc gtagggcgcc ttaccacc accctaccatg gcatctact tggcttggg ctacagcag ttggcactt ctatgtctc</p> <p>attccacggc aggtcaaacg agcacacacag gcactggagc aatacaagt gggtacagca agcatccact ccaaccatg</p> <p>ggccaggaat gattgaagcca tgcctgtctg ttccagggag ctgagacagca ggttgaacat aggtggagcca agtggaggga</p> <p>tttctctga gccactgact gctgaccca ccagacact ggagggggag tcaatagzag tgggagaccca gattcaacagc</p> <p>aagagagcta agcagatggc agagaaaaag cctccagag catctgcca agccacagcca attaaaggag ccagagagagc</p> <p>tccggatct tcatgggaat tggggaagt gactgaag tgtttgtctg tgttctctg ctgtccctg agctacatcc cctctgtct</p> <p>gctcaact ctggagcca gtagtccagc tcccgggtg gtccatgc ttgtgcca cctccctgg ctcaatggt</p> <p>gcatcaaccc tgtctctat gcaagccatga accgccaati ccgccaagca tatgtctcca tttaaaaag agggcccg</p> <p>agtttccala ggctccalta gaactgtgac ccagtcacc agaatcagg acgtctct cccagcccca agtgggacag</p> <p>taatagaga ataggtgaaa taacacatgt gggtatttc acaacatct cctccagcc tcccaatca agtctctcca tcaatgac</p> <p>aatgttcag ccttagactg ccaagggagt attataat attataaat gattctgtg cttaaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaataa aaaaaa</p> <p>MWNSSDANFS CYHESVLGYR YVAVSWGVMV AVTGTGVMVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPSVDIT YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAGKIVLA LVSTWVVGVA SFAPLWPIYI</p> <p>LVPVCTCSF DRUGRPYIT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLROA SIHSHVART DEAMPGRFQE LDRSLASGGP SEGISEPVS</p> <p>AATTQLEGD SSEVGQINS KRAKQMAEKS PPEAKAQK IKGARRAPDS</p> <p>SSEFGKVTM CFAVLCFAL SYPELLNI LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLY AAMNRQFRQA YGSILKRGR SFHRLH</p> <p>cttggctca gagcaacc agttttctt cctccacag caataatct gacagagac atctctcc agctggagc aagaapacag A</p> <p>aagtctctt acaactatct ctggcactc gctgtgccc acatctgtt cctctttc atagtgtt tggacttct gtaggaat</p> <p>ttatctga acatgcat gctcaggtc ccagacaaga tcatagagt gctgggaatt tcatccatcc acactccat atggattact</p>	Homo sapiens

587	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	NM_020377	Cysteine Leukotriene CYSLT2 Receptor	LCFRAKPVEL LSTANILTVI ILSQLVARRQ KSSYNNLLAL AAADILVLEF IVFVDFLLED FILNMQMPQV PDKIEVLEF SSIHTSIWIT VPLTIDRYIA VCHPLKYHTV SYPARTRKVI VSVYTTCLT SIPYYWPNPNI WTEDYISTSV HHVLWIHCF TVYLVPCSF FILNSIIVYK LRRKSNFRLR GYSTGKTAT LFTITSIFAT LWAPRUML YHL YGAPIQN RWL VHIMSDI ANMLALLNTA INFFLYCFIS KRFRF	P Homo sapiens
588	190427	Cysteine Leukotriene CYSLT2 Receptor	NM_020377			aaagtctctta agttttgaag gtaagctctta accaaacaaa ttatggctta tttcatc tttcatc atgtaatgca gcatgtatga aagacttaac cagtggttta aaactcaact ttcaagaagaa agtatagttat gctccctgt tcatataaac ctatgaagat gtaactcagta agcaagaaag aaaaaggggaa attcacaag ttacttttg tgtctgtttc ttntaaoc agcatagtgaag gaaaatttat gctatgtcaa ccatctact cctgttatcaga aatggaaoca atggcacoct tcaagcaata caaacagcaag aaatgcaata ttgaataact caagggagaa ttntoccaa ttgtatact gtaataatt ttctggggag tctggggaaa ttgggtgtcc ataatagttt tctgtcagcc ttataagaa tccacatctg tgaaggtttt caggtctaaat ctgggtccatt cagtaactct gttcataagc acgtctccct tcaagggtctga ctattact atgaaggtccca atgggataat tggagaacctg gctcgtcagga ttatgtctta ttctgttat gtcaacatgt acatgcatgt ttattcttg accgtgtgtga gttgtgttg ttctcgtcag atgggtccac cctttctgt tctgtcagtc accagatca ctaaggtgtctg gtaactgtt gggtaataat ggaacttaatt caggtctctc tcaataaag tctgtcagtc ttgtctgtga cagtaacggca gttgtcactc atgtatgaag ctgaatact ataaaattg taaagctgtcag accatgaact atattgtcctt gggtgtgtggg tggctctg cttttttac actcagcact ttttatctg tgaactttg gttttctgtta aagaaggag tccagaaatc ggggctgtgg gtttttaca gggaaagctact gaccacacat atcaatcact tgaatact ctctgtgtgt ttctgtccct atcaacat gaagaaacgt caatgaacga catggaaagt ggggtttatg aagaagaaag tcaataaag ttgggtttat acactgtgtct ttgtcagtcag cagtgtctc ttcaactc tgcctatta ctgtgtgtg gaagaaattta agtgaactact aaggtctgtca ctcaagaag gccaatcaca gaagggcaag accaaggtgtgt ttctccgtt tgggtgtgtg ttgaagaag aaacaagat ataaggtgtct ctatgaag accgtgtctt gtaactgtt gttccatct atcaactc atcaatcaca tgaactttga ttatcactc tccacaaca ttgttatct taataattag ttgaactta ctattgtta taagaactac ttcaaaaatt ttatcaggt ttattcaggt ttgtgaatc taatgaaggt taccaggggtga aaaaactca ctatgaact gttgtgtgtga atattcagact gttgaaaaaat gcaaaagcaca ttgtgaacta ctattttca gaattgaac cagtaactgt gccaatcaggt cttttaaat tcttcaaa agccaacat tcccaagctt ctccagctctc ctgtctctc tcaatccct gaagaaagaa aagactaaac gtaactgtga gccaatgaag agaagaagaa cacaactaa gaattcaggtga aagactaaac gttgaagaagaa aggtctgtct ataaacaagc agccataag cccaagtaag gaatagtga gaagaaggggtga agtaaggtga gaactgtcga taaagtgtggaa taaagtgtggaa aggtgaagaa ttcataatg atgtgtgaag aggtgtgaac acactgaag ccaacttat tctactgtt ctctgtctc aggtgtgtga gaaggtgaag aaaaagtaag gtaaggtgtct ggggtgtgtc ctatgtgaatg aagaattgt gtaagaag taaagtgtggaa aggtgaagaa atgtatctaa aatttttt gaaggtcaggt ttatgtgaac ttgtctcaggt tctctccct attaattcat ttgggtgaagaa aaaggtgtgt ctctgaagta ttgggtgtga cactgaaggt aaggtgaaggt tgggtgtgtga atgaaggtga gccaacaa ctgtgaattc taaacatt tccgcaagaa atgaaggtga aggtgtgtc aggtgtgtc ttcccttg ataaactact agaaactact agaaactact ttctgtccat tgaagaaggt ctatgtgaatc taccactac taccactac taccactac accatgtac accatgtac agaaactact ttctgtccat tgaagaaggt ctatgtgaatc taccactac taccactac taccactac accatgtac accatgtac agaaactact ttctgtccat tgaagaaggt ctatgtgaatc taccactac taccactac taccactac accatgtac accatgtac	A Homo sapiens

Homo
sapiens

P

NP_065110.1

Cysteiny
Leukotriene
CYSLT2
Receptor

190427

589

ctccctgcag ggcagatatt gccaggcact ttacattgt tgaatccat accaaagctc tgaattccat ttacagctg
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MERKFMSLQP SISVSEMEPN GTFSENNNRN CTIENFKREF FPIVYLIF WGVLGNGLSI
YVFLQPKYS TSVNVFMLNL AISDLLFST LPFRADYYLR GSNWIFGDLA
CRIMSYSLYV NMYSSYFLT VLSVVRFLAM VHPFRLHVT SIRS AWILCG IIVLIMASS
IMLLDSGSEQ NGSVTSCLLE NLYKIAKLQT MNIAL VVGC LPFFTL SIC YLLIRVLLK
VEVPESGLRV SHRKALTTII ILLIFLCLF LPYHILRTVH LTTWKVGLCK DRLHKALVIT
LALAAANACF NPLLYYFAGE NFKDRLSAL RKGHPQAKT KCVFVSVWL RKETRV

Homo
sapiens

A

NM_018485

G Protein-
Coupled Receptor
C5L2

190437

590

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MGNDVSVEY GDYSDLSRP VDCLDGACLA IDPLRVAPLP LYAAIFL VGV
PGNAMVAWA GKVARRR VGA TWLLHLAVAD LLCLSLPIL AVPIARGGHW
PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCLALGPA WWSVTQACG
VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSSTENAV
TAIRFLFGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFVVCWAPYH
LLGL VLTVA PNSALLARAL RAEPLIVGLA LAHSCNPMFL FLYFGRAQLR
RSLPAACHWA LRESQQDES VDSKSTSHD LVSEMEV
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Homo
sapiens

P

NP_060955.1

G Protein-
Coupled Receptor
C5L2

190437

591

Homo
sapiens

A

LG94114

G Protein-
Coupled Receptor
Ls190438

190438

592

594	190484	G Protein-Coupled Receptor Ls190484	LG95579	<p>AQDPVKPWQL LENMYNLTFF VGGLPLRFDS SGNVDM EYDL KLWVWQGSVP RLHDVGRFNG SLRTERLKUR WHTSDNQVRP QACAQKPSR CSRQCQEGQV RRVKGFHSCC YDCVDCEAGS YRQNPDDIAC TFCGQDEWSP ERSTRCFRR SRFLAWGEPA VLLLLLLSL ALGLVLAALG LRVHHRD SPL VQASGGPLAC FGLVCLGLVC LSVLLFPQGP SPARCLAQGP LSHLPLTGCL STLFLQAAEI FVSESLPLSW ADRLSGCLRG PWA WL VVLLA MLVEVALCTW YLVAFPPEVV TDWHMLPTEA LVHCRTRSWV SFGLAHATNA TLAFCLFLGT FLVRSQPGRY NRARGLTFAM LAYFITWVSF VPLLANVQVV LRPVQVMGAL LLCVLGILAA FHLPRCYLLM RQPG LNTPEF F</p> <p>ictgactggc tggctctct gctgctctg ggcctcttca ctgctctggt gggccctgggt gttctggag cctcacggcg ggcctggcc cggggccgcc tctggccggcg tctgctggcg gcttctct tccagggcag gagggtggcg tgggtctca agggccctgg gggtaggatg ctagggatgg gttggggag cttcatca gggactggcg accagactgg cagcaggctg aggggtctgg acgttagtgt ctggctgg ctggggcaca gaaatgact gttggctggcg caggagttc agctgggtt gggctgtggg atccgactgt ggtggggcg tagggttcag ctgggtctga gctgtgggtt cggatcgtgg ctggaggtgg ggggtcact gaggtctggcg caccggatcc atctgtgact ggggtctgg cctggctct caggagttg gacccatga atcagctgg gtctgggt cagtgggt gaaagctggcc gggccctct cccagagagc tggccggaag gacgagagca cggagctggcag cagggtctggc aggtcggcac tggccatgag gcaaggagga gggctggagc agctgtttag taggtatcag taggtggagt agaaaggcg cttccagagc aggttagccag agtagagctt cccagggtag gcaaggtag gcaagctggcg cagctggtag ggcagctca ggaaccata ggtctgacaga atggctctgg ccacacggcg gaaagcccg caggctggcg gctgtgtt gggtggcgag gttggtagcag ctgggtctgg gttggtagcag gcaagtagg gaaaggcagc aagggcccca ggactccag catctcagc gaaagctct cgtgttccca gaaagctcagc caatgtagca ggtctgtag ccaagctggca ggctggggga agaaagcca gggcagctg aagtaggtgg cagcagcca gaaagctggc caggcccca gggcagggcg gactggcg gggccaggggt accaggtgg gcaagctggc agcaggcagc ggttggagct gagggtggcg agcaggagga ggccggagga gtagggagcag cccatagga agtagtagga ggtggcagca gctgttccca gctggccaggt tccccatg caggatctca ggaactggga gggccgtgctt gccaaggaaca agaaatcaga gagggtcagc ctggagcagca gcaagctggcag acgggtgcca gctccatggc ggggtggga gggccagc caggccatca accatggcg tggcagccca agggagcagca ggggccacag gaaagacgtg tccagccac ctgggggga ggaagctctca tcatgaagt ctgtggggcg cttgtggcca gtggcaca ggtcagctc caggttagtg tccatggcg gttccagga tctgttga caggaggtgg gttgtgggtg aatcaatgat gttgttagtg accgagtag ggaagtagcgg tctgttgc atccagggca gtaacatcc cttccctggcg catgtcacc acctttag taattact atggcagga ctggagtg atgactcat ggaagctca tacaattac ttatcag</p>	Homo sapiens
595	190484	G Protein-Coupled Receptor Ls190484	ENSMIPRT2619	<p>MEADLGATGH RPRTLEDDED SYPGGWDIV FLVALLLGL PANGLMAWLA GSOARHGAGT RLALLLSLA LSDFLAAA AFQLEIRHG GHWPLGTAA RFYFLWGVS YSSGLFLAA LSLDRCLLAL CPHWYPGHRP VRLPLWVCAG VWVLAFLSV PWLVFPEAAV WWYDLVICLD FWDSEELSLR MLEVLGGLP FLLLVCVHL TQATACRTCH RQQPAACRG FARVARTILS AYVVLRLPYQ LAQLLYLAF LWDVYSGYLL W EALVYSDYLI LLNSCLSPFL CLMASADLRT LLRSVLSFA AALCEERPGS FTFTPTQJQL DSEGTLPPEP MAEASQMDP VAQPQVNPFL QPRSDPTAQF QLNPTAQFQS DPTAQQLNL MAQPQSDSVA QPQADTNVQT PAPAASSVPS PCDEASPTPS SHPTPGALED PATPPASEGE SPSSTPPEAA PGAGP</p>	Homo sapiens

596	190595	G Protein- Coupled Receptor SH120	NM_016334	A	Homo sapiens	<p>agcaactggg aaaaaggcaga ccgagigaggg gggccctgggg cccagcggcg cgggggggggg aagggggggg</p> <p>aggagccctc ctacacctic gcaatgagtt tcttgatcga cccagcatic agatattact ccaataact attttggg ttgggggggg</p> <p>ttttttcat ggcccaatgg ttaagagact atgagatagag tcaatgatttt gacaggggga tctctccg gacgtttgca ttcttgca</p> <p>ccatgttga gctcatcgc ttgaaatct tagggagattt gatatagcgc tccgtttat ttacatggaa aatgaaacct gggttaatic</p> <p>tgtctgaact ggttttcagc gggccctttt acatggcta ttattggg agcaatcgg gactatcgca taaacaacga cggcttttt</p> <p>ccgtctatt atgggtagcc ttatgtatt tctctggaa actagggagat cctttccca ttctacccc aaaaacatggg actatacca</p> <p>tagaacaagc catcagccggg gttgggggga ttgggagggac tctcagctt ctttttgc gatttggggc tgcacaagc ccatacact</p> <p>acatgtctta cttctcaggg aatgtagcgg acacagatat tctagccctg gaaacggggac tgcgtcaaac catgggatatg</p> <p>atcataagca aaaaagaaag gtagggcaatg gcaaggagaa caatgttcca gaaaggggggaa gggcataaca aacatcagg</p> <p>ttctggggga agataaaaa ggtttaccac ttacggcalca ggaagtgaaa atcttacct tattcaacag gaaagggggag cttgggaaag</p> <p>attaagcagg cagcttttc tggaaacagc tgaatctalat gctaacagg aggaagaaaga atactccaaa accctcaagg</p> <p>ggaaataatt taatttctt ggtttacttt tctctattt cgtgtttgg aaaaatttca tgggtaccat caaatgttt ttgactggag</p> <p>ttgggaaaac ggaatcctgc acaagaggca ttgagatcac tggtaatat cggggaatcc aattgagat gaaagttttgg tcccaacaca</p> <p>ttttttcat tctgttggg ataatacgg tcaatocatt cagggggattg cggatcacgc ttacaaagt cttatggcc atctctagca</p> <p>gtaagcttc caatgtcatt gtccgtctat tagcacagat aagggggcag tactttgct cctctgct gcttgatccga atgagttatg</p> <p>ctttagaata ccggacataa atcatctgaag tcttgaggaa acttgagcgc aactctatc accgttgggt ttgagttatc ttcttggtca</p> <p>ggcctcttc tagcatacct ttctctatt tgggtcaca acagggcaca gaaagggcaaa tggcacacctg aactaaagcc</p> <p>tactacagac tgttaggggc cagggttttc aaaaattaga taaaaggggg ggggaaaaatg gaaocagggggc ctgacatttt</p> <p>ataaacaac aaaaatgctat ggttagcatt ttacatttca tagcatacct cttcccttc aggtgtatct atgatacaga gtagcatcag</p> <p>ccagagagag agaggggagaa ctactcaag acatactca gcaagagagca tccgggtggg atatgaggct ggtgtagaggg</p> <p>cggagagagg ccagaaact aaggttgaaa aatacactgg aactctgggg caagagatgt ctatggtagc tgaagccaaac</p> <p>acgtagagtt tccgttttaa ggttcacatg gaaaagggta tagctttgoc ttgagattga ctataaaa tcaagagactg t</p> <p>MSFLIDSSIM ITSQILFFGF GWLFFMRQLF KDYEIRQYVV QVFSVTFAP SCTMFELIIF</p> <p>EILGVLNSSL RYFHWKMNLC VILLILVFMV PFYIGYFIVS NIRLLHKQRL</p> <p>LFSCLLWLTF MYFFWKLGDV FPLSPKHGI LSIEQLISRV GVIGVTLMAL</p> <p>LSGFGAVNCP YTYMSYFLRN VIDIDILALE RRLQTMDMI ISKKKRMAMA</p> <p>RRTMFQKGEV HNKPSGFWM IKSVTTSAG SENLTIQQE VDALELSRQ</p> <p>LLELTADLYA TKRIEYSKT FKGYFNFLG YFFSYCVWK IFMATINVF</p> <p>DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGI IIVTSIRGLL ILLTKFFYAI</p> <p>SSKSSNVIV LLLAQIMGMY FVSSVLLIRM SMPLEYRTII TEVLGELQFN</p> <p>FYHRWFDVTF LVSALSSILF LYLAKHQAPE KQMAP</p> <p>aggctgcagg cggggcgctgc tggagccgggg gcccggccgg cggccgagag atgtgactcg gggccgaaaggc cagcttgaggc</p> <p>gtcggcgctg cggggcgctgc gggggcgctg gttcggtgca tcaagagagaa agatagagaa tcaacagggcg ctacacttcc</p> <p>tctgtctct cgtgataacc tgggtggcct cggaaacgc cagcatatcc cgaagctcgcg ggtcggtgact cctccctcag</p> <p>taaggttccc tgtgcgact ggaagccatc tggggcaatg tgggtgagggc ggtggccgggg gcccggccccc tgaatcacat</p> <p>gctctctgag ctactctcc tgggtgggct gcccctalc aaggtgagaaagg agaaagaaagg cccgtgggggc ctccactttc</p> <p>tgttctctc gggggaacctg gggcccttgg ggtctgagtt tgccttalc atccagagaggg acgagagacat cgtctctgc</p> <p>cggccgcttcc tctggggcgt ccttttggc ctcgtctct cctggctgct tggagcagggca tggcggtgctg ggaaggtctggg</p> <p>gaggagatggc aaggggccccc cggggcggtgca gctgggtgggca gctgggtgctg gcttgatgct ggtggcaagtc atcagctcg</p> <p>tggaggtggc ggtgctcacc gttcagcgcg acacaaaggccc agccctggccg taaaggagccca tgggactttgt gaggggccctc</p>
597	190595	G Protein- Coupled Receptor SH120	NP_057418.1	P	Homo sapiens	<p>MSFLIDSSIM ITSQILFFGF GWLFFMRQLF KDYEIRQYVV QVFSVTFAP SCTMFELIIF</p> <p>EILGVLNSSL RYFHWKMNLC VILLILVFMV PFYIGYFIVS NIRLLHKQRL</p> <p>LFSCLLWLTF MYFFWKLGDV FPLSPKHGI LSIEQLISRV GVIGVTLMAL</p> <p>LSGFGAVNCP YTYMSYFLRN VIDIDILALE RRLQTMDMI ISKKKRMAMA</p> <p>RRTMFQKGEV HNKPSGFWM IKSVTTSAG SENLTIQQE VDALELSRQ</p> <p>LLELTADLYA TKRIEYSKT FKGYFNFLG YFFSYCVWK IFMATINVF</p> <p>DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGI IIVTSIRGLL ILLTKFFYAI</p> <p>SSKSSNVIV LLLAQIMGMY FVSSVLLIRM SMPLEYRTII TEVLGELQFN</p> <p>FYHRWFDVTF LVSALSSILF LYLAKHQAPE KQMAP</p> <p>aggctgcagg cggggcgctgc tggagccgggg gcccggccgg cggccgagag atgtgactcg gggccgaaaggc cagcttgaggc</p> <p>gtcggcgctg cggggcgctgc gggggcgctg gttcggtgca tcaagagagaa agatagagaa tcaacagggcg ctacacttcc</p> <p>tctgtctct cgtgataacc tgggtggcct cggaaacgc cagcatatcc cgaagctcgcg ggtcggtgact cctccctcag</p> <p>taaggttccc tgtgcgact ggaagccatc tggggcaatg tgggtgagggc ggtggccgggg gcccggccccc tgaatcacat</p> <p>gctctctgag ctactctcc tgggtgggct gcccctalc aaggtgagaaagg agaaagaaagg cccgtgggggc ctccactttc</p> <p>tgttctctc gggggaacctg gggcccttgg ggtctgagtt tgccttalc atccagagaggg acgagagacat cgtctctgc</p> <p>cggccgcttcc tctggggcgt ccttttggc ctcgtctct cctggctgct tggagcagggca tggcggtgctg ggaaggtctggg</p> <p>gaggagatggc aaggggccccc cggggcggtgca gctgggtgggca gctgggtgctg gcttgatgct ggtggcaagtc atcagctcg</p> <p>tggaggtggc ggtgctcacc gttcagcgcg acacaaaggccc agccctggccg taaaggagccca tgggactttgt gaggggccctc</p>
598	190599	G Protein- Coupled Receptor GPCR5B	NM_016235	A	Homo sapiens	<p>aggctgcagg cggggcgctgc tggagccgggg gcccggccgg cggccgagag atgtgactcg gggccgaaaggc cagcttgaggc</p> <p>gtcggcgctg cggggcgctgc gggggcgctg gttcggtgca tcaagagagaa agatagagaa tcaacagggcg ctacacttcc</p> <p>tctgtctct cgtgataacc tgggtggcct cggaaacgc cagcatatcc cgaagctcgcg ggtcggtgact cctccctcag</p> <p>taaggttccc tgtgcgact ggaagccatc tggggcaatg tgggtgagggc ggtggccgggg gcccggccccc tgaatcacat</p> <p>gctctctgag ctactctcc tgggtgggct gcccctalc aaggtgagaaagg agaaagaaagg cccgtgggggc ctccactttc</p> <p>tgttctctc gggggaacctg gggcccttgg ggtctgagtt tgccttalc atccagagaggg acgagagacat cgtctctgc</p> <p>cggccgcttcc tctggggcgt ccttttggc ctcgtctct cctggctgct tggagcagggca tggcggtgctg ggaaggtctggg</p> <p>gaggagatggc aaggggccccc cggggcggtgca gctgggtgggca gctgggtgctg gcttgatgct ggtggcaagtc atcagctcg</p> <p>tggaggtggc ggtgctcacc gttcagcgcg acacaaaggccc agccctggccg taaaggagccca tgggactttgt gaggggccctc</p>

Accession	Protein	NP	Sequence	Species
599	G Protein-Coupled Receptor GPRC5B	NP_057319.1	MFVASERKMR AHQVLTFLLL FVITSVASEN ASTSRGCGGLD LLPQYVSLCD LDAIWGIVVE AVAGAGALIT LLLMLILLVR LPFIKEKEKK SPVGLHFLFL LGTGLGLGLT FAFIIQEDET ICSVRRELWG VLFALCFCSCL LSQAWRVRRLL VRHGTGPAGW QLVGLALCLMLVQVILAVEW LVLTVLRDTR PACAYEPMDF VMALIYDMVL LVVTLGLALF TLGCKFKRWK LNGAFLLLTA FLSVLIWVAW MTMYLFGNVK LQQGDWNDP TLAITLAASG WVFVFHAIP EIHCILLPAL QENTPNYFDT SQPRMRETA FIEDVQLPRAY MENKAFSMDE HNAALRTAGF PNGLGKRPS GSLGKRPSAP FRSNVYQPT E MAVVLNGGTI PTAPPSHTGR HLW gtggcctcga gggggggcga gggcgccccc cfcgaglcgc gggcgcgaac cagggacggg gctccggag gcaaggctgg ctggaaaggaa cgcctctcgc ttgcctcacc acttgcgcaa agtctccga gctctacc atagcatatt ggtatacaca aatgaaatgc aagggaacca aaataacata attgaaggca gtaaaatgga aataaataag gaagatcac agtaacaggaa gaccactgg aggaggacaga aaatgaagca ggttttaic agtgiatit cagcaggctc tcttgaat taactaaaaa tatcactgct ctctctcag agaaactctc ttucagttac cagttaacgc aaacaaccca gccccctagc gtaacatc tgcctatctt gctataat gggaaaaat tattaaatat octtacctg ggaatgagaa gaaaaaacac cgtcaaat ttatggaa attttgcac ttactagca tcttgatgc	Homo sapiens
600	G Protein-Coupled Receptor GPCR150	NM_014373		Homo sapiens

601	190602	G Protein-Coupled Receptor GPCR150	NP_055188.1	<p>tittactitti ggttaacatt locatlatat tgrattitcag ggtattitgta cttitaaagca ttaaggticac taaataocac atcttgoclat</p> <p>ttaactaaat tatttocttt actatigctt ttttgcaalia tocaagttic ctgacagctt gtaataagta ttgocdgzat ttcttaaaa</p> <p>caaccaagct ttactiaaag tgrcaaaaat tattttatt ctttaacagta atttaattt ggtatticagt ccttgcttat gttttggzag</p> <p>aocagccat ctaccaagc ctgaaggcac agaatgctta ttctgctac ttctgctt atgicagcat tcaagttac ttgctgtcat</p> <p>ttttcaggt gattattia tttagctt tcaaacctg ttgggaagaa gttactact ttgacagc talcaggtata acttoctata</p> <p>tgaatgaac tatcttat tttocttt catocacit cagttatct gtagaicta aaaaatttt ctatccaaag ctatgtct</p> <p>gtttctcag tacttggtta ocaattgac tacttcaggt aatcattgt ttactaaag ttcaagttcc agcatlatat gtagatgaata</p> <p>ttocctggt atactgtic aalagtittc ttatgtctac agtgtattgg tttaattgic acaaagcttaa tttaaaagac attggtallac</p> <p>ctttggtacc attgtcaac tggaaigtct gctatcc acttaaat ctaacttg agcaaatga aaagcttata tcaataatga</p> <p>tttgtaata ttathta aaagttaac ctgtcaag atcaaat ttatgaacga aagaaactcag gacatattaa aaaaataaact</p> <p>gaactaaac aactttgoc cctgacaga tagcaittca gaaigtgct ttgaaggcg tataccagt attaaatagt gttttttt</p> <p>aaaaacaaa taaltocaaag aagtittat agttatcag gtagactata ttacaatat tacttgta ttacacaaa aaggtataag</p> <p>agttaacatt tggctatct gatttttg ttactcaaa aaactactgg atgcaaatg ttatgaat ctgaattic actgcaact</p> <p>ttaagtatc aucttaaca ttittataa atgtcaaat gtagcaaga aaaaaaaa</p> <p>MT ALSSENCs FQYQLRQTNQ PLDVNYLLFL IILGKILLNI LTLGMRKNT</p> <p>CQNFMEYFCI SLAFVDLLLL VNISILYFR DFVLLSIRFT KYHICLFTQI ISFTYGFLLHY</p> <p>PVFLTACIDY CLNFSKTIKL SFKQCKLFYF FTVILWISV LAYVLGDPAL</p> <p>YQSLKAQNAV SRHCPFYVSI QSYWLSFFMV MLFVAFTTC WEEVITLVQA</p> <p>IRITSYMNET ILYFPSSHs SYTVRSKKIF LSKLIVCFLS TWLPFVLLQV IIVLKVQIP</p> <p>AYIEMNIPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKCCFIP</p> <p>LTPNLEQIE KPISIMIC</p>	P	Homo sapiens
602	190623	Melanopsin	AF147788	<p>ggttccacac catgaacca cagttccag ocaggtacagc ttggcagca cgtatgcatag gaaagcatctg gaaagctgagag</p> <p>cttccacagc ggtccctctg gctccattgg atggcagggct cgggcagagac gaagtctccag gttgtgtgtgg gttgcaaggg</p> <p>tttggaagcaa gtagcggccatg ggtgaagctcc ccaagtgtgagac agaaagcacaag gtaggtatgggg gttggggocct gtaggtatct</p> <p>cagttgtaac cgtcaacggct gtaggtgacg gctccatggag aaaggtacatt gtaggtgtgg acgtgtgggt ccaagggccoc</p> <p>caggtgtgggg gttccagatc ctctgactt tccctgaggt gctccattga ggtccgtgtg accctgtgtg ttgtgtatcc cgtccatgt</p> <p>gtccacattga caagcacttc tccctggag tccctgtgct gctccatcac ctggcaccctc tcttaattag caggtgtggag</p> <p>agtgtgggtcc acattgaag gtaggtgtgt ttgactcaga atgtctcca gctgtgtggga atgttaaac cctatcata</p> <p>aaacgcaagc agctgtgcat gtagcttaagg acagaaagaa aagcctggcc ctcaagctca cccctggccc aggtgtggct</p> <p>ctgtgagcca aagctcagaa gttgtgaagag ctcaaggaagaa aggtcagctg agccatgggg ttgcaagctg aggtatgaca</p> <p>gctcccgctc ccagtgtgagc ttgtccatct tctctgtc aaaaatgtggg ctccaggtgag actgtttgta aagacgtggg</p> <p>gtaactctgg aaggtgtgtgt alactctgt cactccaggg gctccacac tccacagcat gttccaggtac atggccccca</p> <p>cttaggtatga ccgtctggcc gtaggtctcc cctaaacagca gctctgtg gtaggtctg cccgtgagcag cctccctgga</p> <p>agcctgtgtgt tcaagctcc ttcttccag ctctgtctg ctctctaaag acaggtggcag ggtcagggcc ggtgtgtccct</p> <p>ccactctga calccagta actgtgata ggtctgtcag cgtgtgtgt ttctgtggag tctccataa aggttttaaa aaactttat</p> <p>actttaaaa ttctgtgg ggtcaggtgg tcaagctgtg tcaagctgt aatctgtgaga cttgtgtgag cgtgtgtgg ttgtatcact</p> <p>gtaggtcagga gttcagatc agctgtgcca acatgtgtgaa ctccgtctc tcttaatat acataattia gttcaggtgtgt</p> <p>gtgtgtgtgt cctgtatcc cagttactc gtaggtgtgag gtaggtgtgag ttgtgtgag ttgtgtgagc aaggtgtgtgt</p> <p>gtaggtgtgt ttgcacatt cactccaggg ttgtgtgagc aggtatgtctg tctcaaaa aataaaaaa aaaaaataa</p> <p>acttttat caaaaaa gcaaaagccg cctgtgtgtc ttgtatcc ctactgtac atctctctgt ttgtccatc ttgtgaaagg</p>	A	Homo sapiens

[illegible]

[illegible]

[illegible]

					sapiens
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					WSLPFFFGWS AYVPEGLITS CSWDYMSFTP AVRAYTMLLC CFVFFLPLLI IYCYTIFRR
					AIRETRALQ TFGACKNGE SLWQRQLQS ECKMAKIMLL VILLFVLSWA
					PYSAVAL VAF AGYAHVLTPT MSSVPVIAK ASAHNPYI AITPKYRVA
					IAQHLPCLV LLGVSRHSHR PPSYRSTHR SILTSHTSNL SWISIRRRQE
					SLGSESEVGW THMEAAAVWG AAQQANGRSL YGQGLEDLA KAPPRPQGH
					AETPGTKGL IPSQDPRM
604	190627	G Protein- Coupled Receptor GPR41 & GPR42	NM_005304		Homo sapiens
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					gacagtgaa cactacag gctgtgtgag tgggtggcag gtaggtgtgt ctgaaagctg g
605	190627	G Protein- Coupled Receptor GPR41 & GPR42	NP_005295.1	P	Homo sapiens
					MDTGPDQSYF SGNHWFVSV YLLTFLVGLP LNLALVVFV GKLRPRPVA
					DVLLNLNTAS DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFIT
					LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLSAHC
					YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPLIT
					SYCYSRVW LGRGGSHRRQ RRVAGLLAAT LLNFLVCFGP YNVSHVVG
					CGESPAWRVY VTLSTLNSC VDPFVYFSS SGFQADFHEL LRRLCGLW
					WQDESSMELK EQKGEEQRA DRPAERKTSE HSQCGGTGGQ VACAES
				A	caagactgt cctctctcc gactacaca gattgtgagc atgtgttgg agcagagcca gtaacagat tatattatg
					aggaataatg aatgaagg actatgact acagtaata tgaactgac tgaatcag agatgtcag agaatgca aaagtittcc
					tctgtatt cctcaata gttttgtca tttgtctg aggcattcc atgtgtgtt caattatgc ctattacag aaacagagaa
					ccaaaaaga tgtgtacatc ctgaattgg ctgtgacaga ttactctt ctattcac tgcctttt ggtgtgtat gcatgtcatg
					gggtgggttt agggaaata atgtgtcaaa taactcagc ctgtacaca ctacttgg tctgtggaat gcatgttctg gctgtatca
					gcatgtacag alattgtgca gtaacaaag tccacagcca atcagaggtt ggaagagat gctgtgtatc ctgtttctgt
					gtctgtgtgg ctgtcatct gctgtgtgata cccagcttgg ttittatag agtaaatgac aatgtgtgt gcattoctat ttccccgc
					tacctgtgaa catcaatgaa agcatgtatt caaatgtcag agatctgtat tggatttga gtaaccttct ttattgtgg ggtgtgtac
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					gtcatcaac tgcctataa cattgtcag ttctgtccag ccatagtat catctctc ctgtacaca gctgtcaat
					gagcaaacgc atgtgacatg ccatcaagt caccagaaag atcgtactct ttacagagct cctcaaccca alctttatg

ttttatggg agcatcttic aaaaacttac ttatgaaagt gggccaagaaa talgggtcct ggaagaaagaca gaagacaaagt
 gggagagaaagt ttcttttga ttctgagggg ctiacagagac caaccagatc tttagcatt taagaagtataa actgtctctgc ctttggcttg
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 aagaaatgggg (ggggggaagg gggggaagaa aagggccaaga agagagaaaca agataataaa tctacaaaac agtaaaatla
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 VFVIGLAGNS MWAIYAYYK QQRKTIDVYI LNLAVADLLI LFTLPFWAVN
 AVHGWVLGKIMCKITSALYT LNFVSGMQFL ACISIDRYVA VTKVPSQSGV
 GKPCWICFC VWMAALLSI PQLVFTVND NARCIFFPR YLGTSMKALI QMLEICIGFV
 VPFLMGVCY FITARTLMKM PNKISRPLK VLLTVVIVEI VTQLPYNIVK FCRADIIYS
 LITSCNMSKR MDIAIQVTES IALFHSLNP IL YVFMGASF KNYVMKVAKK
 YGSWRRQRQS VEEFPDSEG PTEPTSTFSI
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 gcaagcggcc cttcaacggcc actaacaaag cgggaagcgg ctgtgaaggg ctgtgaagggcc cggcggccgc ccaagcggcc

607	190701	C-C Chemokine Receptor 11	NP_0157641.1	P	Homo sapiens
608	190705	G Protein-Coupled Receptor SALPR	NM_016568	A	Homo sapiens

609	190705	G Protein- Coupled Receptor SALPR	NP_057652.1	<p>ggcagccgg accgctctta claccacot ggogctctgg tctacagcgg ggaggcgtac gacotctcgc ccagcagctc tgcctactga cgcaggctc aggcocaggg ogococgctg ggagcagctg gctctcccg ggagcagaaag aggtgaaaggg atgagggagg gctgggg</p> <p>MQMADAATTA TMNKAAGGDK LAELFSLVPD LLEAANTSGN ASLQLPDLWW ELGLEPDGA PGHPGSGG AESADTEARV RILISVYVWV VCALGLAGNL LVLYMKSMQ GWRKSSINLF VTNLALTDQ FVLTPFWAV ENALDFKWP GKAMCKIVSM VTSNMVYASV FFLTAMSVTR YHVSASALKS HRTGRGHRGD CCGRSLGDS CFSAKALCVW IWALAALASL PSAFSTTVK VMGEELCLVR FPDKLLGRDR QFWLGLYHSQ KVLGFLVPL GHILCYLLL VRFIADRRAA GTKGGAAVAG GRPTGASARR LSKVTKSVTI VLSFLCWL PNQALTTWSI LIKFNAPVFS QEYFLCQVYA FVSVCLAHNS NSCLNPVLYC LVRREFRKAL KSLRWRIASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYYP GVVYSGGRY DLLPSSAY</p>	P	Homo sapiens
610	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NM_018970	<p>ggcagagga ttatctgt gtcacagat cagatantia ctagagaga gattttat ttgtttca ttaacagat attaaagc aaaaagcatg cagaaagaaga agcagagctt ttacatggg aaataatga agcgtctcgc ctatgttgg gtagagaaac tggagagtg ttgttaaaa ttatataa octocacaaa caaaactct cggaaatgg aaataatga aatgacatgat tctagagga ttctaaaga ccacgtgtc aggttttg gttctgtgg taccatcaga ccgtttggac tggtagggc ttacttgag ctcatttct ggaaagctti acaagactga ggaataicag acgtcgtac accgggaaag gttcttgc agcacagaag caatctct cccatcttc gcatattctg atgscaaac aatggagaga aagagagag catgactgca gatacagatca gtctcttg tggattat ttacgtaaa atgataggat clatcttc ctgtttta tatcagatc atgagactg actgagctg tatcttalc ctccatcat ctatgggaa ctatggcat gacgtcagca acatttggca aaactctgc ccctaaacag ccttctgaa actgactcc ttgggtttca taataggagt cagcgtgggg ggcaactcc tgaactcat ttgtctagtg aatgataaga ccttgcatag agcaccttacc tacttctgt tggacttg cttgcatat atctcatat ctgcaatg ttccattt gtttcaact ctgtcaaaa tggctctac tggacttat ggactctgac ttgcaaatg atggcttgc tgggggttt gtccgttgc caactgtct tcatgtctt ctgcatcagt gtcaocagat acttagctat cgtccatcac cgtctata caaaagaggt gacotttgg acgtgtctgg cgtgtctcgt tatgtgtgg actctgtctg tggccatggc atttcccg gtttagagc tgggcatctt cttatctct catctcta ggcacacagc ttgtctact caagctgata cgtctctca gggctaatga ttacttagga ttatgtgc ttctgtct catctcta ggcacacagc ttgtctact caagctgata ttttgtcc acgtatgaa aaaaatgaaag ccagttocagt ttgtagcagc agtcagccag aacttggacti ttatgttcc tggtagcaggt ggccagggcag ctgccaatg gctagcagga ttgtgaggg ggccacac acccaactg ctgggcatca ggcaaatgc aaacacaca ggcaagaaaga ggctatgggt cttagagcag ttcaaatgg agaaagagat cagcagaaag ttctataaa tgaatttct gtttaaac ttggggggcc cctactgtgt gggtctgtat tggagaggti ttgcaagagg gctgtatga ccaggggggt tttaacagc tctgtctcgt atgagtttg ccacagcagg aatcaatct ttgtctgca ttctcaaa cagggggcgtg aggcgtgt tcaagcacac cctctttac tgcagaaat ccaggttacc aaggggaact latgtgtta tatgagggag cattctgaaa tcttagctt tggaaact aactctct gcttagcagt tggggccat agccatatt tgaagagaa ttcaagaaag gaatcagcag tttaaggt ttgggcaaca ttctgagc ttggcaatag ttcaacta atctattt aaactcaga gttactctg tgaatgocag caaaggttg taataagaa gggaactgaac cactgacct agttttta tgggtcaaa aactagataa tgaagtagc aggtgtcag tatcagct aaatgtctg tatgtacta catatgaaa aatcaaaa aacaaatgac atgggacalc taataaat aagttgact gaagaaatg tggtaaaa aactaat ttgaagttga apacttaaa acattcata ctactatgt tttgcaaga chaaatat tgggagacta aggtactga atccactga ttccactaaa gacgtgcca tgaatttg gaatacaca cttaaaaac cgctctgtaa gtctgggga gcatccaaa gcatgtat ttgttccat ttgttat taatacattg ctattctaa</p>	A	Homo sapiens

611	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NP_061843.1	<p>ataccacitt cctcatcac tagaagatt gctagcatgg aactgattta tgggtttt gttgattgg tataaagtt ttocaattca ttatattt acaatgcta gatatggic tgggagagca cattaatgt accagocgt cacaactgag cagtictaat aatgcagaaat aaatacatgt tggctaaag gttatctag tatcttcat ctatttagc actgagagca atagocaaag gaaatcaaat cagtactgg tcatggicat gcatcaaaa gfgcatggaa gattantat tacttttcc ttutttic acatggttg aaacttaaa gscacatcac tgaataatg agattttt ctacgggtg ctacocctt taaactgic taagaagcag gcatgtagg taigtatla ttaagatca gctgcaagg ggaagacaca gcttagtat gacatcctg acaattgg aagcaattat tcatgtagg gacagictt gttatact tcigcacti cagttagt gtaatttaa ttatitcagt ttaactgt gaaagcttat aatgattt cggattttt agaaatacat tagagcttgt gtagtcat cttaagata cagatggcg aactcaata taagttgca ttgocaaa ttacocgg tagcctgta atttttga aataagttt acattttg cacatacaa cgtttttt aattgggag gcaagacaca actaggaaga ctatcttat taigttag ctttttag ctatattcca gactggaaat gtagaaga taatcaaat aatgctgata aactgacata atatatctg taaaagcatt attggtag ttatataat catcctcta ttactttaa afgccagtag tattagaga tggtaaccg cttagtaat tggctcagaa tttaalata aacalcacac ttaattgg agcatagiac calagaaat tggggttcta aatatcaac ttgaagaag aatggtttac actaacta tgaactaaact agaaaaagt attatttt ttgctttct gttgtttt ttattgttg gttttga agttattt ttutttga ttgataat aagattaga atcaataac acagaattcc atattgctat agtactctg taagaagaa atcaataaa ataaagaaa taaacalg aatgttca atggtaaaa aaaaaaaa aaaa MANYSHAADN ILQNLPLTA FLKLTSLGFI IGVSVVGNLL ISILLVKDKT LHRAPYVELL DLCCSDILRS AICFPFVFNK VKNGSTWTYTG TLTKKVIATL GVLSCHTAF MLFCISVTRY LAIAHHRFYT KRLTFWTCLA VICMVVTLVS AMAFPPVLDV GTYSFIREED QCTFQHSFR ANDSLGFMLL LALILLATQL VYLKLEFVH DRRKMKPVQF VAAVSQNWTF HGPAGSGQAA ANWLAFGRG PTPTLLGIR QNANTTGRRR LLVLDEFKME KRISRMFYIM TFLFLTLWGP YLVACYWRVF ARGPVVPGGF LTAAVVMSFA QAGINPFVCI FSNRELRRCF STLLYCRKS RLPREPYCVI</p>	P	Homo sapiens
612	190725	G Protein- Coupled Receptor GPR26	LG93120	<p>aggtaggg agctcttc cactgtgccc atcggctccc actgggggt gctgtccag tgcctgggt acagcaaggc cgcatcgac cctttgt actcttact ggcacacag taccgaaaa gctgcaagg gattctgaac aggtctcgc acagagctc catcactcc tctggctca caggcgactc tcatagccag aacatctgc cgggtgtga g MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRRQA PALFTLNLTC GNLLCTVNM PLTLAGVVAR QPAGDRLCR LAFLDTFLA ANSMLSMAAL SIDRWAVVF PLSYRAKMLR RDAALMVAYT WLHALTFPA ALALSWLGFH QLYASCTLCS RRPDERLRF VFTGAFHALS FLFSFVLLCC TYLKVAFHC KRIDVITMQT LVLLVDLHPS VRERCLEEQ RRRQRATKKI STFGTFLVC FAPYVITRLV ELFTSTVPIGS HWGVLSKCLA YSKAASDPFV YSLLRHQYRK SCKEILNRL HRSIHSSGL TGDSSHQNIL PVSE</p>	A	Homo sapiens
613	190725	G Protein- Coupled Receptor GPR26	LR26	<p>atggccaaca ctacggaga gcttagagag gtagcgggc ctgttccc accgtccgca tcaagttag tgaagctgtt actctggga ctgattatgt gctgtagcct ggcgggaac gcatctgt cctgttgt gctcaaggag cgtgcoctgc acaaggctcc ttactact cgtgtgccc tggocgggc cgalggcata gctctgccc tctgtccc ctgtgtgt gctctgtgc gocaggctc ttatggacc ttcatggcac tcatggcag gattgtggcc ttatggccc tgccttttg ctccatggc gcttcatgc tcttctcat caggctacc cgtctatagg ccatgcca ccaocgttc tacggcagc gcatgacact ctggacalg ggggctgca tctgcatggc ctggacccg tctgtggca tggcctccc accgtctt gacgtgggca cctacaagt tattgggag gtaggaccagt gcatcttga gcatgctac ttcaaggca atgacagct gggcttttag ctatgttg ctgtgctat</p>	P	Homo sapiens
614	190741	Sreb3	NM_018969		A	Homo sapiens

615	190741	Strb3	NP_061842.1	<p> egcagcagcagc catgctgctgct acggcagagct gctctctctc gtaglalcgic aocgcaagat gtagcagcagc cagatggcgc cagccatcag ccagagactgg acaltocag gtcocggggc caccggcagc gctgctgcca actgggagc cggcttgccg cgtggggcca tgcacacac ccctgggggt atccggcagc atggggcagc agccagccgg cggctactgg gcatgggacga ggctcaggggt gaaagcagc tgggocgcat gttctacgc atcacatgc tctctgct cctctggcca cctacatg tggctgcta cggcggagc tttgggagc cgtgctgt gcccacgc tacctggcca cgtgctgg gtagcttc gcccagc cggcagcc aattgctgc ttctgctc acagggact caaggagc acggccctg ctggggcaca ggaggggcc cggctccag agaacctac tggcagc ga MANTTGEPEE VSGALSPFA SAYVKLVLLG LIMCVSLAGN AILSLVLKE RALHKAPYTF LLDLCLADGI RSAVCFPFVL ASVRHGSSWT FSALSCKIVA FMAVLCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRY FKANDTLGFM LMLAVLMAAT HAVYGKLLF EYRHRKMKPV QMVP AISQNW TFHGPAGATGQ AAANWIAFG RGPMPPTLLG IRQNGHAASR RLLGMDEVKG EKQGRMFYA ITLLFLLWS PYIVACYWRV FVKACAVPHR YLATAVWMSF AQAAVNPVC FLNKLKKC LRTHAPCWGT GGAPAPREPY CVM </p>	P	Homo sapiens
616	190742	G Protein-Coupled Receptor H7TBA62	E32367	<p> gaggctctgic cagagactag agcagaggaag ggagggaagg cggcgala ga gtagcagc aggtttaat tatcaggagc aggaacagaa ctgaggagat gcccagctcc acacaggccc tcataggccc aggtgtcca gtagggagga aacaggagc tggacttcc tctctt cctccctgc tctaggctc aaggctcag ctgctgagat gaaaccaac ctgtttatg tggcactggt ccttgggcat ggaalagcc tctcagacc cttctgocac aaacaccca aactctct tggaaat atcataca atgctatt cacatgati ctctatgc atcagccac tctctgagc cagactaac tgaatatt agcagaaga acaggcttag gggaagaa gtaacttcc agtcacagc ctgggagc gacggctg agctccgag cctccgctt ttctctct ggacacct gctgattccc tgcctatg ccaactcca ggccctg tggggccc aagggaacac ttgtgaga ggaggggggc ctctgactg ttagggagc agggcagctct agttggctc ctgctc tgggagagc aaacctcag ctctctct gggggaggg ctggggggct gctggggggg cggggggggg cggggggggg cggggggggg cggggggggg taccaggggg cgcagggcaca tatccctgg caltcagct gttccctgccc cggcccccac tacacacacat ctggacacac aggaaggggg tgggtgtcc ttccacac cctccctg aggtgtgggg gttggggggg gttccacagc ggccacagc aagcactaa ttccacagc tcttccag agcttccag ggccctgccc agctggggc agactggc agctctc ttagcaccac caatctga tgcctggcga tgcacacat caatctct gctctccac ccaatct ctggggacat gctccggag gcaagtggt gtagcttcca tggcttcca atctcagc ctagggctc tgggtgccc ggctatgggg ctgtggggg ccaatgggt gctgggggaat ttggggggg cttggggggg cactactct cctcttgg gcaagcgggt acctcagc acctgct tcaacctgg tctggggg cttggggggg cttggggggg cttggggggg cttggggggg cgggacggga cttcactgg ccttggggg gttccctctg caagtggt ctgggggcca ctgttcca cgttctgccc agcacttcc tcatcagc gctggagcgt gctggggg gctggggg gctggggg gctggggg gctggggg gctggggg actcttgg gcccgaatag ccaacctgg aggtggggg gctggggg gctggggg gctggggg gctggggg gctggggg tggggggg gctggggg gctggggg gctggggg gctggggg gctggggg gctggggg gctggggg gctggggg agggggggg cgggagggga gcaagggggg gggggggg gggggggg gggggggg gggggggg gggggggg gggggggg ccaacagc ggggagggg tggggggg gggggggg gggggggg gggggggg gggggggg gggggggg gggggggg tccctggcac tactggctg gcaacagc agggggg gggggggg gggggggg gggggggg gggggggg gggggggg caggctctgg caggcactt caggggagc cggggggg gggggggg gggggggg gggggggg gggggggg gggggggg </p>	A	Unidenti

Accession	Gene	Protein	Accession	Gene	Protein	Sequence	Species
617	190742	G Protein-Coupled Receptor H7TBA62	ENSEP00000201359			MPTLNTLSASP PTFFWANASG GSVLSADDAP MPVKFLALRL MVALAYGLVG AIGLLGNLAV LWVLSNCARR APGPSDTFV ENLALADLGL ALTLPFWAAE SALDFHWPFQ GALKCMVLTA TVLNVYASIF LITALSARY VVVVMAAAGPG THLSLFWARI ATLAVWAAAA LVTPTAVFG VEGEVCGVRL CLRFPFSRYW LGAYQLQRVV LAFMVPLGVI TTSYLLLLAF LQRRQRRQD SRVVARSVRI LVASFFLCWF PNHVVTVLWGV LVKFDLVPWN STFYTITQTV FVVTICLAHS NSCLNPVLYC LLRREPRQAL AGTFRDLRLR LWPQGGGWVQ QVALKQ	Homo sapiens
618	190743	G Protein-Coupled Receptor GPRCSD	NM_018654			algtataaagg actgcatcga gtccacttga gactatctt ttctcttga cgcgagaggg ccatggggga tcatcttga gtccctggcc atacttggca tctgggtcac aattcttgta ctcttagcat ttctcttct catggcaag atccacatgt gtagtcttc cccacccagc tctcttctt ccctgggtgc ctgggggtct tggagtctc ttgtcttc atcatctgagc tcaatcaaa aactggccccc gtagctact ttcttttgg gggtctctt gtctcttgt tctcatctt cttagctcat gctctcaatc ttgttgaagct gggtctgggg ttgtctctt tctcttgagc gacaaatctg ttgcatctga tggtttgacac tctgttgcaaa atcattatgt cctacttgta ttgtacttc auctatgaaca gtagttagat gttttgtaat atgacacct gcccagctcaa tggtagcttt gttgtactct ttgtctatgt cctcttcctg atggccctca catctctct cttccaaagcc acctcttggg gcccctgtga gtagcttggaag catgcatggaa ggctcatctt tatcatctg ctctcttcca tcatcatctg gggtgtgtgtgg atctccatgc tcttggtaggg caaoccgagc ttccagcgac agcccccagtg gtagtagaocgg gtctcttga ttgtcttggg caaccaatgca ttgggttttcc ttgtcttcta catctgctt gactcttga atcgttaga atcgtgttaga catggtagtctt cttttacaagg ctaattgcttc cccgtcacag cttaccacaa catgtttcaa gtgttagaacc agggagctctc catgagccctga gtagcttagtg gtagcttagga gtagttagca ttaacttcat atgttactoc catctagocg capactgttg atccacaca agagtgttc atccacagg ctaacttagg oocccagcaa	Homo sapiens

619	190743	G Protein- Coupled Receptor GPCR5D	NP_061124.1	gatgacaggag gaggataaa MYKDCIESTG DYFLLCDAEG PWGIIIESLA ILGIVVTILL LLAFLFLMRK IQDCSQWNVL PTQLLFLLSV LGLFGLAF AF IIELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLV RG CVSFSWTTIL CIAIGCSLLQ IIAITEYVIL IMTRGMFMVN MTPCQLNVDF VVLLVYVLF MALTFVSKA TFCGPCENWK QHGRLIETTV LFSIIWVWV ISMLLRGNPQ FQRQPQWDDP VVCIALVTNA WVFLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPOQ DAGGV	P	Homo sapiens
620	190744	G Protein- Coupled Receptor GPCR5C	NM_018653	cgggcagggtg gggaaactoc ctgaaagatg ccttggtcac agcaactctg aagaaacagca ttggccacag ggaaccaaac agagocctggc ctggagagcca ggaatggocat caataaagcc ttggatgatg gactggagat gactctcttc ctgtccacag gggocctgggc ccaggggccat gtoccaoccg gctgcagacca aggcctcaac cccctgtact acaactctg ttgacggctct ggggcgctggg gcaatcgctt ggaagocctg gctggggcgcg gcaatgicac caggtttgg ctcaacatca tccctggggc cagcctccc ttgtgcagg acacaagaa acggagocctg ctggggaccc aggtatctt cctctgggg accctggggcc tctctgct cgttttggc ttgtgggga agocagact ctcaactgt gctctcggc gcttctct tgggggtctg ttggccatct gcttctctg tctggcggtt caggtcttg cctcaacti cctggoccg aagaaacacg gggcccgggg ctgggtgcat ttacatggg ctctctctg gacctggga gaaagatca tcaatacaga gtagctgaic atcaocctgg ttggggcag tggcgagggc gggocctcag gcaacagcag cgcagggctgg gctggggctt cccctctg cgtcggcaac atggacttg tcagtgact catcacgc atgctctgc tgcggggctg cctctgggg gctctggccc cctctgtgg cgtctacag cgtctggcgta agcatgggtt ctgtctc ctcaacag ccacctcgt tgcataagg gtaggtggga tctgtatga tactacggc aaacagcagc aaacagctoc cactgggaa gacccacgc ttggccatgc cctggoccc aatgocctggg cctctgct ctctacgc atcccagag tctccaggt gacacagtc agccacagc aaagctacca ggggggacag taocccacc gggcgctggg ctatgaaac atocctgaag agcaagaaagg tcaagagcag ttctgtggaa acaaggctt ttccatggat gaaocgggtg cagctaaagag gcccgggtca ccatcagcg ggtacaaagg gtagctctg accaggtgt accagccac ttgaagggoc ctgaaagca aagtccgt cgaagggatg tctgacatca tctccacag gggocagoc aacaagcagg ttatggcag ttccacatg accctgggg ctgaaagacat gtaactggoc cagaaagcc acccgggccac accggcgaaa gacggcaga acatcaggt cttaagaa cctacgtgt gggactgaat cagcgggtggc gaaagagagc ggggggat ggggggggc ctgaaggact gggocgggc aagggactct ctagccta gttttgggt ggggtctag ggtgtccca cccctccc aaatggoc ccagatctgg aagggocctc ctctgcga gttttgggt ggggtctag ggtgtccca cccctccc agtgtttg gagtggagga gccaaccca gctctcggc aggtacact cggcggtcac actccagcca aataggtt tcgggggtgt ggtctggcag cgtctatgt tctctggga ttctggcaac ctcaagagaa ttccagggc ctcaaggctg gactcttc ctctggag acaagggt ccaataaat acatitctgc ttatataa aaaaaaaa aaaa MGTPPEPLG ARMAIHKALV MCLGLPLFL PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTTFLT ILVASLPV QDTKKRSLG TQVFLLGLT GLFLVFCV VKPDFSTCAS RRFLGVLFA ICFSCLAHV FALNFKRN HGRGWVFT VALLTLVEV INTEWLIT LVRSGEVGGP QGNSSAGWAV ASPCAVANMD FVMALIVML LLLGAFLGAW PALCGYKRW RKHGTVLLT TATSAIVWV WIVMYTYGNK QHNSPTWDDP TLALALAANA WAFVLFYVP EVSQVTKSSP EQSYQGDMP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNQQLTS VYQPTMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	A	Homo sapiens
621	190744	G Protein- Coupled Receptor GPCR5C	NP_061123.2	gatgacaggag gaggataaa MYKDCIESTG DYFLLCDAEG PWGIIIESLA ILGIVVTILL LLAFLFLMRK IQDCSQWNVL PTQLLFLLSV LGLFGLAF AF IIELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLV RG CVSFSWTTIL CIAIGCSLLQ IIAITEYVIL IMTRGMFMVN MTPCQLNVDF VVLLVYVLF MALTFVSKA TFCGPCENWK QHGRLIETTV LFSIIWVWV ISMLLRGNPQ FQRQPQWDDP VVCIALVTNA WVFLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPOQ DAGGV	P	Homo sapiens

622	190745	G Protein- Coupled Receptor LGR7	NM_021634	A	Homo sapiens
<p>atgacatctg gttctgtctt ctctacatc ttaattttg gaaatattt ttctatggg gggggacagg atgtcaagtg ctctctggc tatttccct ggggagacat cacaaagtc ttgctcagc tcttgactg taacgggtg gacgactg ggaatcaggc cgaagaggac aactggggag acaacaagg atggctccatg caatttgaca aatattgc cagtactac aaaaagact cccaatacc ttgtgggca gaaacacatg aatgtttgtt cgggtctgg ccagtgcaat gttctgcca aggtctggag ctggactgg atgaaacca ttatcagct gttccatgg ttcttcaaa tggactgca atgtccttc agtggaaat aataagaaag ctctctctg attgttcaa gaaatattat gattctcaga agctgttaca gcaaaacaaat aagattatcat ccatctccat ctatgttuc agaggactga atagccttac taaactgtat ctacgtcata acagaaataac ctctcagag ccgggggttt ttgaagattt tcaagacta gaaaggctga taattgaaga taatcaccit agtggaaatt cccacccaac attttggga cttaatttc ttattcttt agtctgtatg aatacgttc tcacccgtt acctgataaa cctctctgc aacacatgoc aagactatcat tggctggac ttgaaggcaa ccaatccat aattaaagaa atttgactt tattctctg agaaatttaa ctgtttatg gtagaggaaa acaaaaata atcactaaa tgaataatct ttggcaact tccagaact ggaagaaatg gaaataggaa gtaataagat tgaataatct ccaactctt ccaactgctta taltcaaggaa cctgaaggaa ctgtcaaat tgaatcttc ctataacca atocagaaaa ttcaagcaaa ccaattgat taltctga aatcaagtc tctcagccta gaaaggatg aaattcaaa tatcaacaa aggaagtta gaccttat gaaictctt cacatatatt taaagaaat ccaattactgt gggatggcac cacatgttc cagctgtaaa ccaacactg atgggaattc atctcagag aatctctgg caagcattat tcaagaaagta ttgtctggg ttgtatctgc agttacctgc ttggaaaca ttgttcat ttgcactgca cttataica ggtctgagaa caagctgtat gccaatgcaa tcatttctt ctctctgoc gactgttaa tgggaataa ttatctgg atcggaggct ttgaactaaa gttctggga gaatacaata agcagtgca gctggggatg gaggactac atgtcagct tgaaggatct ttggcaatc tgcacaga agtatcatt ttactgttaa cattctgac atgggaaaaa tacaatgca ttgtatoc tttagatg gtagagaccg gaaatggcag aacaattaca gttctgatic tcattggat tactgggtt atagggtctt tcatcatt gaggcaaaag gaaatttca aaaaacta tgggcaaat ggaagtatgt tccctca ttcaagaaat acagaaagta ttggagocaa gaaattica gttggcaatt ttctggat taattggoc gcaattaca tcatagttt ttctatgga agcagtttt alagtgta tcaagtgcc ataaacgaa ctgaataacg gaatacagtt aaaaaagaa tgatctgca caaacgttt ttctatag tatttactga tgcattatg ttgaaacca ttgtttagt gaaatttct tcatctctc aggtagaat accagttac ataacctt gggtagatg ttattctt ccaataca gttcttgaa ccaattct taaacttga ccacaagac attaaagaa atgattcat ggtttggta taactacaga caaagaaat ctatggacag caaaggctcag aaaacataig cccatcat caatgggtg gaaatgggc cactgcaaga gatccact gaaatgaaga agcgggaact tttcaatc cctgtgaaa tgcactgat ttctcaica acgagactca attctattc atga</p>					
623	190745	G Protein- Coupled Receptor LGR7	NP_067647.1	P	Homo sapiens
<p>MTSGSVFFYI LIFGKYFSG GQDVKCSLG YFPCGNITKC LPQLHCNGV DDCGNQADED NCGDNNGWSM QFDKYFASY KMTSQYPFEA ETPECLVGSV PVQCLCQGLE LDCDETNLRA VPSVSSNVT MSLQWNLRK LPDCCFKNYH DLQKLYLQNN KITSISYAF RGLNSLTJLY LSHNRITFLK PGVFEDLHRL EWLIEDNHL SRISPPTYG LNSLLVLM NNVLTRLPDK PLCQHMPLRH WLDLEGNHII NLNLTFISC SNLTVLVMRK NKINHLNENT FAPLQKLDL DLGSKNIENL PPLFKDLKE LSQLNSYNP IQIQANQFD YLVKLKSL EGIEISNIQQ RMFRPLMNLS HIYFKFQYC GYAPHVRSC PNIDGISSLE NLLASIIQVR FVWVVSATC FGNIFVICMR PYRSENKLY AMSISLCCA DCLMGTYLV FGGFDLFRG EYNKHAQLWM ESTHCQLVGS LAILSTEVSV LLLFTLEK YICIVYFRC VRPGKCRIT VLLIWTGF IVAFTPLSNK EFFKNYYGTN GVCFFLHSED TESIGAQYNS VAIFLGINLA AFIIIVFSYG SMFYSVHQSA ITATEIRNQV KKEMILAKRF FFIVFTDALC WPIFVVKFL SLQVEIPGT ITSWVVIFIL PINSALNPIL YTLTRPFKE MIHFWYNYR QRKSMDSKGQ KTYAPSEIWW EMWPLQEMPP ELMKPDIFTY PCMSLSISQS TRLNSYS</p>					

624	190748	GPCR Ls190748	AX147756		A	Homo sapiens	<p> gttcttggtgggtt ggggggagtgctt ggggacaggggg tcaatggctt gaaagcaaggcg ctctacccc octagtgctct gctgagctag ttgggggctctc agagttggggga gggagaaaggc actttgaaac ttctctggcc ttacccgtttt agccatcaaa ctctgagctg gaaagatggga cgaatggaca ggaactttcc ctgggctctt ctggggcaaca attcttgggc gaaagaaagaa gggagggaaatga ggttgagagcaac ttcttcactc ctaggggcccat gttgtgagagc tggcagtcgca cctctcttg ccaataggca tatzatgagtg ggtttgagtcag ggaagtggcc acggccgagca gcccacagtgta ccggttcaggc actagggtaga ggttgacatct ctgggagggcc accctgacaaa tggccagtggat aagtgaaagggg gttccagtgaa gaaacaaagctt ccaatggaga accaaacacag taccggaagagc ttgtgagtcg ctgggagttcc gttggggatcgg ataaacttca gccaatttgc ctggcatctt catcttccga atctgctggc ttgtcatggga gggcaatctg agctatgctgc agttagaaagaa gacaaagagg agctatggctcg ggaagagagagcc aac-gcagggag aggggtcagca cgaagtgagag gtagaatata gcaaaagagagc tgcactggcc ttgttagggca gttctgctggga acatgggggaa tccgagtgggg agggaaagccaa tgaagtgaaaga cactaaaccac agcccgggcaaa tggcagggccccc gggccacgaaac ccatctagaa tcttaagaa gaggaaaggggc tgtctgagtg caaggttaact gtcaaaagtgag atcagcaatga ccgttgagggagc agggggcagct ggggaagaaag tgaacaaatgc calccggcagg ctggcaggggg tctttctgtgt gggccggaagaa gggctctggagaa gttgtgtctgt gaaataggccca gaaataggccca caaccaatca ggtgtgtagcc acagccagat tcaaggtgaa gcaagagacttg acacacat tctgtgggat caacagcagc acagccacag ccaataggtgt gttatggagca atgattgaggg aggcacagggac agcaagagagtc actccaagtg aagaaagatga ttcatgtct cgaagtggca ggaacttact taccagggca tg messsfsgvt laavlalslia tntlavavavl llihkndgvs lcftlnlava dtlignaisg lltldqlssps rptqktlcsL rmafvTSSAA asvltvmLit fdrylaikQP frylkimsgf vagaciaglw lvsyligflp lgipmfqQTA ykGQCSFFAV fhpfhvtls cvgffpamll fvffycdmLK tasmhsQQR kMEHAGAMAG gyrsprtpsd fkalkrtvsvL igsfalswTP flitgivQVA qQECHLYLVL ERYLWLLGVG nslLnPLIYA ywQKEVRLQL yHmALGVKKV LtsfLLfLSA RNCgPERPRE sSchvTISS SEFDG </p>
625	190748	GPCR Ls190748	CAC39548.1		P	Homo sapiens	<p> atggccaaact ccacaaggctt gaaagcttca gaaagtcgag gttctgtgggg gttgactctg gcaagctggcg tggaaaggggg gggcacttgctg gggcaacggcg ccgtctgtctgg ctgggtgtctg ccgacggccgg gacttgccgga cggcgctctac ctggcggtcac tggcgctctg ggaactggctg gggggccggtt ccaatggttcc gttggggcttg ctggccggccac cggccggccgg gttggggccg gttggcttg gcccggccgc atggccggcc gttctgtcttc tctccggcg gttctgtccgg gcttgccagc tggggggggc cggcattggc ctggcagctt accgttcat cgttgacaccg ctggcgccag gttctggggcc gttctgtgtg ctgtgtgtca ccggctgtg gggccggcg ggaactgtgg gggcggtcttc ctgtctggcc ccggccggccgg ccagggccggcc tggctgtct cgtctgtctg tctgtgtgg ggggtctgggg cctttccggc cgtctgtggcc cttgtgtggcc ttggcgctgac ccggccctcc gttctggcc gcttatggcg gcatcttct gttgtggcgct cggctgtggcc tggagggccccc accggcggggg caagggcgggcc gactccggctc ggaactctg gtagggccgc ttccattt ggccggccctc cggctctggcc tggccctggcc caagggcgggcc ctggcccccag cgtctggccgt gggcccaatt gcaaggcttct gggctgtctac tgggtgtggcg tggctgtggcc ccggctggcc gggccggcgga gggcggaaggc ctgtcatctg ggttggtcttac tgggtcttg ccggctcacccc ctctctgtac ggggtctgtg agcgccctgt gctgtgtgca ctggggccgc tctctggcc tggcactgtct ggaactgtgt ggggtctgtcac tccgcaagcc tggcaccgc gggcactct gcaatgctc caagagacccc caagggggccccc tggcgtagggc ctctctggag ctccagaca gaccccgag ttggcagagag gggcgagggcc cgcatacag gggccacctg agagtctct cctgga MANstGLNAS EVAGSLGLL AAVVEVgALL GNGALLVVVL RTPGLRDALY LAHLcvVDLL AAASIMPLGL LAAPPPLGR VRLGPAPCRA ARFLSAALLP ACTLgVAALG LARYRLIVHP LRPGSPPPV LVLTAVWAAA GLLGALSLLG PPPAPPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLLG AYGGIFVVAR </p>
626	190749	G Protein-Coupled Receptor GPR62	AF317653		A	Homo sapiens	
627	190749	G Protein-Coupled Receptor GPR62	AAK12638.1		P	Homo sapiens	

629	190774	Histamine H4 Receptor	NP_067637.2	<p>acatttatt agtttggtta tttttttt tttaaaaca tttttttt apatgggggt ctgtctgt tgcocacga ggaagtcagt ggcatgctt cagctcactg cagccctgac tgcctaggct ccagcaact tctatgta gctccagag tagctgggac cgaggcact tgcacacag cccacaaaa aattttta atgttgctt tcttgaagt gttctctgc tcttttgic acaaaattc atttttca tagttaatt catctctcg gtaagtatt atgttggtt ctttatac ttgcagtic ttacacgtt tgggtgatt catgttct agaaacttta aacttttaac ttcaaacatt aaaaataag tctttaagt acatgagtg ttagaaagt acataagt tatataact tagctttac attaaagtc aataagaa atacatgtt aatcaat aataattta aaaaattgag aataaactc taataaagc aaaaaaaaa aaaaaaaa</p>	P	Homo sapiens
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	<p>MPDTNSTINL SLSTVTLAF FMSLVAFAIM LGNALVILAF VVDKNLRHRS SYFFLNLAIS DFFVGVISIP LYPHITLFEW DFGKEICVFV LTTDYLLCTA SVYNVLISY DRYLSVSNV SYRTQHTGVL KIVTLMVAVV VLAFLVNGPM ILVSESWKDE GSECEPGFTS EWWYLAITSF LEFVIPVILV AYFNMMIYWS LWKRDHLSRC QSHPGLTAVS SNICGHSFRG RLSSRRSLSA STEVPASFHS ERQRRKSSLM FSSRTKMNSN TIASKMGFS QSDSVVALHOR EHVELLRARR LAKSLAILLG VFVWCWAPYS LFTIVLSFYS SATGPKSVVY RIAFWLQWFN SFVNPLLYPL CHKRFQKAFI KIFCKKKQPL PSQHSRSVSS</p>	A	Homo sapiens
631	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	<p>gataggtt t METNSSLPTN ISGGTPAVSA GYLFLDITY LVFAVTFVLG VLGNGLVIWV AGFRMTHVT TISYLNLA VA DFCFTSLPF FMVRKAMGGH WPFGWFLCKF VFTVDINLF GSVFLALIA LDRCVCVLHP VWTQNHRTVS LAKKVIIGPW VMALLTLPV IIRVTTPGK TGTVACTFN SPWTDNPKR INVAVAMLT RGIIRFIIF SAPMSIVAVS YGLIATKHK QGLKSSRPL RVLFSVAAAF FLCWSPYQVV ALIAVTRIRE LLQGMVKEIG IAVDVTSALA FFNSCLNPML YVFMGQDFRE RLIHLPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK</p>	P	Homo sapiens
632	190824	Formyl Peptide Receptor-like 2	NM_002030	<p>atggaacaa actctocat tctctgaat gaactgagg aggtgctcc tgaagctgct ggocacacg ttcttgat ctctcatg ctagtcacg pagtacct tgtctcggg gtcctggga atgggctgt gatctgggtg gctggattcc ggaagcacg</p>	A	Homo sapiens

(FPRL2)

633 190824 Formyl Peptide NP_002021.2 P Homo sapiens
Receptor-like 2 (FPRL2)

cacagacac accatcgtt acctgaacct ggocctagct gactctct tcafgccat octaccatt opaatggct cagtcgcat
gagagaaaa tggoccttg cgtcaatct atgtaagta gttcatgta tgaagacat caaatgtt gttcatgct acctgaacac
catcattgt ctggaacct gtaattgt cctgcatcca gctggggccc agaacacct caccatggt ctggccaaga
gggagagac gggactcttg atttccaa tagtcttac cttaacaat ttactctt ggaactaat aagtactacg aatggggaca
catactgtat tttaactt gcatctggg gtagacatg tgaagagtg tgaactat ggccaaggtc ttctgtaac
tcaacttat taaggctc acggggccta tgcataat cacgtcttg tatgggata tggctgcca aattcacaga aaccacaga
ttaaatccag ccgtcccta cgtctgttg cgtctgttg ggtctttc ttacgttt ggttcccta tgaactaat ggcattctaa
tggcagcttg gctcaagag agtggttaa atggcaata caaaatatt ctgtcttga ttaoccaa agctctctg gcttttta
acagctgct caaocaaat ctctagct ttatggctg taactcaa gaagactga ttggctctt goccactagt ttggaagggg
occtgacta ggtccctgac tcaagccaga ccaagcaaac acacacact tctgttacc ctctgagga gacggagta
caagcaagt ga

634 190824 Formyl Peptide NP_002021.2 P Homo sapiens
Receptor-like 2 (FPRL2)

METNFSIPLN ETEEVLPEPA GHTVLWIFSL LVHGVTFVFG VLGNGLVWV
AGFRMTRTVN TICYLNALA DFSFSAILPF RMVSVAMREK WPFASFCLKL
VHVMIDNLF VSVYLITIA LDRICVLHP AWAQNHR TMS LAKRVM TGLW
IFTVLTPN FIFWTIST NGDYCIFNF AFWGDTAVER LNVFTMAKV FLILHFUGF
TVPMSTTVY YGIAAKIHR NHMKSSRPL RVFAAVVASF FICWFPVELI GILMAVWLKE
MLLNGKYKII LVLINPTSSL AFFNSCLNPI LYVEMGRNFQ ERLIRSLPTS LERALTVPD
SAQTSNTHIT SASPPEETEL QAM

634 190948 EMR2 Hormone NM_013447 A Homo sapiens
Receptor

cggagagggg acagccctgt cccactact ctctccctg ctgctctg cggcagctca gctgggaaca tgggagggccg
cgtctttc gttttctgt catctgtgt ctggctgact ctgcccgggag ctgaacaoca ggaactccagg ggtctgtgccc
gggtggggccc tcaaggactcc tgggtgtga atgcacacggc ctgtcctggc aattccagggt tcaagctctt ttctgagac
atcaccaacc ccatggagagac ttgtgagagac atcaacaggt gttgcaacact gtcggaaggt tcatgcccga aattctggga
ctgtctgggaac acagaggggga gctacgactg cgtgtgtcagc ccaaggatatt agctctgttc tggggccaaca acattcaga
atgaagagga gaacacgtgt caagatgttg acgaatgtca gcaagaocca aggtctctgta aaggtctacgg caactgctgic
aaacaccttg gcaagctaacac gttccaggtg ctgctctgt tcaagctcaa accgtgagagc ccggaagctct gcaagatgt
gaatgaatgc accctcgggac aaacaccttg ccaagctctc accactggcc tcaacacgt gggtcagctat cagttgcccgt
ggccggccggg ctggccaaccg attccggggt ccccaatgg cccaacacat accgtctgtg aagatgtgga ctgaagcagc
gaagcccaaga cacgggaalcc cgaataaoca aaagagacact gttctgtga gttatgact ttccacctgg accccggccc
ctggaggtcca cagccagagac ctttccggt tcttgacaa agttccaggtac ctggggcagag actacaaagg accgtggggcc
aataaacoca tcaagagac ctacagctg ctggagagagc tgcgtggagagc cccgtggagagc ctgggaagccc tggccggct
acagcagacac tgtgtggcca gttcactgtt ggaaggtcta gaaggtatgccc tcaagaggtcc gaagcagaagac ctttccatg
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tctggctgt caocacctg agcaggtttg ccgtctcat ggccacatag ggaagagagc agggagagatcc cgtgtgtgact
gtcaacct acatgggggt gtaggtctat ctgtgtgtgccc tctctgtgac ggccctcact ttctctgt gtaagagcat ccaagacaac

635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaactac tgcactgca gctctgctc tgcctcttc tggccaact octctctc gggcaatg atcaaacggg acaaaggg cgtgtcca tcatggcg taccgtgac tatctaac tggcaact cactgtgag cgtgtggag ccctgaact ctctcact gcaaggaaacc tgaagggt caactacta agcaacaca gattcagaa gaagctcag ttccctgg gctacggag occagctg acagtggca ttctggcag ctccaggct cactttatg gaacacctc ccgtctgg ctcaacag aaaaagggt tatalgggg ttctgggac ttctggcag cactctct ggaattag ttctttct gggtgactc tggatttga aaaaagact ctctctc aatagtgag tgcacact ccgggaacaca aggtgctggg catttaagc gacactcag cgtctcag tggctgccc ggtgtgctg ggtcctggc aggtggctcc ggtggccgg gtcagggct acccttcc catcaccac agctgcaag ggtgtctat ctctctgg taccctcc tcaaggca ggctgggg caatalggga aatgtcca aggggacagg aatgaaa cgtgtctga gtagcacaca ctctcagca gtctaaagg tgcacctc aaaccagca cgtgttaacta gaaaaact cgaataaga ttctctct tggcgggg aaaaactgaa caacttga gccaataga ggggaagaa agacttgi tctgtgt tcaagaaat caccatgca gcaatagaa ggatgtatg gaaggctg tggcaltca atctgca gaaaggga ttctcactc cctgcaatg gctcaca ctcagcat atggagggc agcgtggcc calacttgg tcatctgg gcaaatat tatgaacta tgaaggtta agaccttt cacagcct octctaca agactctc caaatcaa aatgaagcag gaaacaagc ctaaggagac ttctacccg acaaactg aaggagtag aatgtaca ccagactg gattctaa ttgtttg tgtcttag ttctagggt ttgatttt agtcatgaa aatatatga ttactcac atagatcag agagacacag ctctggct caggagct ttgggggaaa atgaaggc tctggcag aggttgaat caggagcga aattctaga aatcaggtt ctactgtag gcaattgag tataaactat ttataaca cgtctctt tcatctac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>MGRVFLVFL AFCVWLTLPG AETQDSRGCA RWCQDSSCV NATACRNP FSSFEIIT PMETDDINE CATLSK VSCG KFSDCWNTG SYDCVCSPGY EPVSGAKTFK NESENTQDV DEQQNPRLC KSYGTCVNTL GSYTQCLPG FKLKPDPKL CTDVNECTSG QNPCHSSTHC LNNVSYQCR CRPGWQPIPG SPNGNNTVC EDVDESSGQ HQCDSTVCF NTVGSYSCRC RPGWKPRHGI PNNQKDTVCE DMTFTWTPP PGVHSQTLR FFDK VQDLGR DYKPLANN IQSILQALDE LLEAPGDLET LPRLQHCVA SHLLDGLDVL LRGLSKNLSN GLNFSYPAG TELESLEVOQK VDRSVTLRQN QAVMQLDWNQ AOKSGDPGPS VGLVSIPIGM GKLLAEAPLV LEPEKQMLLH ETHQQLQDQ SPILLSDVIS AFLSNDTQN LSSPVTFES HRSVTPRKV LCVFWEHGQN GCCHWATTGC STIGTRDTST ICRCTHLSF AVLMAHYDVQ EEDPVLTVIT YMGLSVSLLC LLAALTELL CKAIQNTST LHLQSLCLF LAHLFLVAI DQTGHKVLCS IAGTLHYLY LATFTWMLLE ALYLFRTARN LTVNYSIN RFMKKLMFPV GYGPAVTVA ISAAIRPHLY GTPSRCWLQPK EKGFIVGFLG PVCAIFSVNL VFLVTLWIL KNRLSSLNSE VSTLRNTRML AFKATAQLFL LGCTWCLGIL QVGPAARVMA YLFTIINSQ GVFIPLVYCL LSQQVREQYG KWSKGIRKLK TESEMHLLSS SAKADTSKPS TVN</p> <p>gcaactcag gctgtcagg agcctctt gaactcag ttacttct gctggctt cgtccatt ttctatc ctctgacag tggaggca tctgtctt ggtcttc caagcagac aggtggggc tctgaaagg ttaggagc tcaaggca cactatct tgcattt cctgagat gaagatgaa agggagagc gaagcccat ggtcagatg aaggagac tttagtt ctnttt tttagaat ggtgtctg tctgtc aggtggat gtaggtgct gactcagct cactgagc tcaactct ggttcat gattctct cctcagc ccaagtagt gactcag gcaatgca</p>	A	Homo sapiens

Accession	Gene	NP_000743.1	Protein	Species
637	Leukotriene B4 Receptor BLT1	NP_000743.1	190955	Homo sapiens
638	Trace Amine	AF380185	191039	Homo sapiens

[illegible]

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tgaagaagt atttgaana gtaacctgc ttgatgag ctctctac catttgtt ttgatata cctgggggca gtagaagcct
agggtggcc accagialga gttgccatta agaacccag cocttatic ttbaaagggt tttaataaa gttcttctca aatggagtag
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tgtaatggt gtaagaaga ataatgctt cgtttctc tttaacatt aaaaatctc aatgacagc atataataa acataata
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tattaaagt cagaataaaa aaaaaaaa aaaaaaaa aaaaaa
MTNSSSTSTS STTGGSLLL CEEESWAGR RIPvSLLYS LGITLANG
MVYL VSSFR KLQTTNFI VNGCAADLSV CALWMPQEA V LGLPTGSAE
PPADWDGAG SYRLRGGL GLGLTVSLLS HCLVALNRYL LITRAPATYQ
ALYQRRHTAG MLALSWAL GLVLLPPWA PRPGAAPPR HYPALLAA
LLAQTALLH CYLGIVRRV VSVKRVSVLN FHLHLQPGC AAAAAFPGA
QHAPGPGAA HPAQAQPLPP ALHPRRAQRR LSGLSVLLC CVFLATQPL
VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNP LLYTWRN EEFRRSVRSV
LPGVGDA AAA AVAATAVP AV SQAQLGTRAA GQHW
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tcatattt ttcttgc aagcttca gaaatcct gaaatgag ctgaatgccc caacttgc aacatctc tccaggaaca

641	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1		P	Homo sapiens
642	191168	P2Y12 Platelet ADP Receptor	NM_022788		A	Homo sapiens

643	191168	P2Y ₁₂ Platelet ADP Receptor	NP_073625.1	<p>ataggagaaaa agaaacaggat ggttggtgacc caaatgaaag gactccaatg taacaaatit aactaaggaa atatttcaat ctcttigit tcaagactog taagagaaa ggcgtaaagta aaaaattaaa ctgacgaaga agcaactaag taataalaa tgaactaaa gaaacagaag atiaaaaa caattttat tuaccttcc agtaagaaaa gctacttaa aatatagaaa actaatciaa actgtagcig tattagcagc aaacaaaacg ac</p> <p>MQAVDNLTSA PGNTSLCTRD YKIQVLFLP LYTVLFFVGL ITNGLAMRIF P FQIRSKSNFI IFKNTVISD LLMULTPEK ILSDAKLGTG PLRIFVCQVT SVIFVFMVI SISFLGLITI DRYQKTRPF KTSNPKNLG AKILSVVWA FMFLSLPNM ILTNRQPRDK NVKKCSFLKS EFLVWHEIV NYICQVIFWI NFLIVVCYT LITKELYRSY VTRGVGKVP RKKVNVK VFI IIAVFFICFV PFHFARIPYT LSQTRDVFDC TAENTLFYVK ESTLWLSLN ACLDPFIYFF LOKSFRNSLI SMLKCPNSAT SLSQDNRRKKE QDGGDPNEET PM</p>	Homo sapiens
644	191193	Trace Amine Receptor 3 (TA3)	AF380189	<p>atggggaata atttccca agcigaggct gggagactgt gttacaagaa cgtgaacgaa tctgcatia aaactcttia ctgcagggt cctgatacta tctctaacgc cgtcttigit ttggggcig ttggggcagc gtttgggaac ttactggta tgaigtctat ccttcacttc aaacaaacgc acacacacac aaactttcgt atggcgtcgc ttggcctgic tgaacttctg gggggagica ctgigtatgcc cttcagcaca gttgagctcig ttggagagctg ttggtactt ggggacagtt acgtlaaati ccataatgt ttgacacat ccttctgtt tgcattctta ttcaattat gctgatactc tggtagaga tacaatgicg ttactgatac tctgacctat ccaaccaagt ttactgtgic agtttcaagg atatgcatg ttcttctg gttctttct gtcacalaca gcttttcat cttttacag ggaagccaacg aagaaggaa tgaaggaaia gtaagtctc laacctgt agggagcigc caggctccac tgaatcaaaa cgggttccia cttgtttc ttctattt tataccaat gtcgccatgg tggtaata cagtaagata ttgttggtgg ccagc-catca ggcctaggaa agagaagta cagccaagca agctcagttc tctcagaga gttacaagga aagagtagca aaaaagtaga gaaaggcctgc caaaacttg ggaattgcta tggcagcatt tctgtctt tggctacat acctgttga gtcagtgat gatcttata tgaattttat aaactctct tagtttatg agattttat ttgtgtgt tattaaat cagctatgaa cccctgat talgtttct ttaccaatg gtttgggaag gcaataaac ttatgaag cggcaaggc ttaaggactg atttgtaac aactaatia ttcttgag aagtagagac agattaa LLVMIALHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF P MVNDFSQAEA VELCYKNVNE SCIKTPYSPG PRSILYAVLG FGAVLAAGN LLVMIALHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PTKFTVSUSG ICIVLSWFFS VTYSFSIFT GANEEGIEEL VVALTCVGGC QAPLNQNWVL LCFLLFFPN VAMVFTYSKI FLVAKHQARK IESTASQAQS SSESYSKERRVA KRERKAAKTL GIAMAAFLVS WLPYLVDVI DAYMNFITPP YVVEILVWCV YYNSAMNPLI YAFFYQWFGK AIKLIVSGKV LRITDSSITNL FSEEVETD</p>	Homo sapiens
645	191193	Trace Amine Receptor 3 (TA3)	AAK71240.1	<p>atgaatagc cactagata tttagcaat gctttcat tccc-gatta tgcagctgt ttggaaat gcaatgaga aaacatoca ctcaatagc actactccc tggattat ggcatact tctcgtggg atttccagc aatgacatag tgaatocac ttacatttc aaaatgagac ctggaaagc cagcaacatc attatgctga acctggcctg cagaatcig ctgtaactga ccagctccc cttctgati cactactatg ccagtgggca aaactggaic ttggagat ttalgtgaa gttatccgc ttacgttcc atttcaact gtatagcagc atctcttccc tcaactgtt cagcatctc cgtactcgtg tgaatcata ccaatgagc tggtttoca ttcaaaaac tgaatgca gtttagctc gttcgtgtt gttgatact tcactggag ctgtcattcc tgaatcagc tgaatcagc caaccaacag gaaacaga ttgactcig tgaactcag cagttggat gaaacata ctatagag gaaacacig gaaacacig atttgaact caactatt ctgctccc ttggtagag tgaacttg ctatocagc attatoca ctctgacca tggactgcaa actgacagct gactaaagca gaaagcaga aggciaoca ttctgact ccttgcat ttacatgt ttaacct ccaatctg agggctatic ggaatgaaic tgcctgcti tcaatcagtt gttocatga gaaatgagc calgaagcti acatgctc tagatocatta gctgctctga acaacttgg</p>	Homo sapiens
646	191196	G Protein- Coupled Receptor GPR80	AF411109		Homo sapiens

Homo sapiens

P

taactgttta ctatgttgg tggctagcga caactttcag caggtctgtct gctcaacagt gagatgcaaa gtaagcggga
accttgagca agcaaaagaa atagttaact caacaacacc ttaga

MNEPLDYLAN ASDFPDYAAA FGNCTDENIP LKMHYLPVIV GIIFLVGFGP
NAVVISITYIF KMRPWKSSIT IMLNLACTIDL LYL TSLPFLI HYYASGENWI

FGDFMCKFER FSFHNLYSS ILFLTCSIF RYCVIHPMS CFSIHKTRCA VVACAVVWII
SLVAVPMTF LITSNRTNR SACLDLTSSD ELNTIKWYNL ILTATTFCLP LVVITLCYTT
IIHTLTHGLQ TDSCLKQKAR RLITILLAF YVCFLPFHIL RVIRIESRLI SISCSENQI

HEAYIVSGPL AALNTFGNLL LYVVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP

Homo sapiens

A

tccctggccc ttaataaatg acttaattc ttaagctc tgaattcct tctgtaaaa caggggcgggt aataaccaca taacaggtctg
gtatgaaaa tcatgaaaca tgcagcaggti gctcaagttt tgttttgt tccaggggga cagtggttagg ttctctgagc atgtatccaa
ccaccocggc ctgggggaaca gaaagtiaaca cagtgaaagg aatgaccaca gccctcttc tcttttgttg caaggttagacc

ctgtatccgg tctctgtat cttttcatt gccctggctg ggcctgttagg aaacgggttt gctctctggc tccctgggtt ccgcattggc
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acccggga gttcgtgaa gctgtgttg tagagatgga cagctctac ttccatcaga tatgtggc ttgttagggc
aaattggcc ctgtctgt gattctga actttcag tctgtatt aaacagtta aggttagtct tgtgtgggt aagttagaca
MDPTTPAWGT ESTTVNGNDQ ALLLCGKET LIPVFLILFI AL VGLVGNFG

Homo sapiens

P

VLWLLGFRMR RNAFSVYVLS LAGADFLC FQINCLVYL SNFFCSISIN
FPSFFTVMTCAYLAGLSML STVSTERCIS VLWPIWYRCR RPRHLSAVVC

VLLWALSLL SILEGKFCGF LFSDDSGWC QTFDFITAAW LIFLFMVLCG
SSLALLVRIL CGSRGLPLTR LYL TILLTVL VFLLCGLPFG IQWFLILWV KDSDVLFCHI
HPVSVVLSSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV

DHSEGCFRQG TPMSRSSLY

Homo sapiens

A

tcatatact gacatctt ttggagcaa agttttagat acattgttg catcttccat gcatatgti gcaaatgtct ggtcttgaag
atcttgtt ttctgocagg ttgcagacti gccactagag ctgggtatgg tcatgtgac atgtccgtc atgttagtcca gttgaagcagg
actcagggga atgtctgcca cactatggga agataaactg tagatcatct tgaagaaagg agactttgt ttatctctt gcttacaat

aataacatag catgttggga tgaatgtgca atacaggtat ccatagttag atataatat gacataatc tccacagctg gttacattt
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ggcacttca gaaatttgt aatttggat caaagctgaa ggttagcaaa attttcagag acttctgcaa aatgttagg
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CAC51133.1

G Protein-Coupled Receptor
GPR80

191196

647

AY042214

MrgX2 G
Protein-Coupled Receptor

191218

648

AAK91805.1

MrgX2 G
Protein-Coupled Receptor

191218

649

LG94359

G Protein-Coupled Receptor
Ls191222

191222

650

651	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199 719	P	Homo sapiens
<p>aaatgagaga aatgacagag aagagacaca tagacagacac taaatcccc ggaagatattc acaacagagtg tttcaggtt tcttgtaaat attatgacca caaacagagac aaataatgati ccacagtagagg agagaaatcac gtagtagagtg gccaagagagt catlocaggt gtagatattcc acttcttt caaagacacat agtctctoca acagaggagccc agttagagttt gttgttgcat aaaaaggcagt gagacatac t</p> <p>QTLAMHHSIE MINNSTLPG VKLGVEIYDT CTEVTVAMAA TLFLSKFNC SRETVFKCD YSSVMPRVKA VIGSGYSEIT MAVSRMLNLQ LMPQVGYEST AEILSDKIRF PSFLRTPSD FHQIKAMAH L IQSGWNWIG IITDDDDYGR LALNTFIQA EANNVCIAFK EVLPFLSDN IIEVRINRL KKIIEAQVN VIVFLRQFH VFDFNKAIE MNINKMWIAS DNWSTATKIT TIPNVKKIGK VVGFARRGN ISSFHSFLQN LHLLPSDSHK LLHEYAMHLS ACAYVKDIDL RLHISQLAV FALGYAIRDL CQARDCQPN AFQPWELLGV LKNVTFIDGW NSFHDAHGD LNTGYDVVLW KEINGHMTVT KMAEYDLQND VFIPDQETK NEFRNLKQIQ SKCSKECSPG QMKKTTRSQH ICCEYEQNCP ENHYTNQIDM PHCLLNNKT HWPVRSTM FEKEVEYNW NDSLAILLI LSLGIIFVL VVGIIFRNL NTPVKSSGG LRVCYVILL HFLNFASFS FIGERQDFTC KTRQTMFGVS FTLCISCLT KSLKILLAFS FDPKLQKFLK CLYRPILJIF TCTGIQVVIC TLWLIFAAPT VEVNVSIPRV IILECEEGSI LAFGTMLGYI AILAFICFIF AFKGYENYN EAKFTFGML IYFIAWITFI PYATTFGKY VPAVEIIVL ISNYGIL YCT FIPKCYVIC KQEINTKSAF LKMIYSYSSH SVSSI</p>					
652	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	NM_032571	A	Homo sapiens
<p>tttctgagc taggaagaagt ggttggtta cggacagata gagaagcttcc agggctggct ggcggggagat accgtaacca cagaatagca gggacattgt cttctocag gcccttgctt ttgtctgagc cttttgagag ctgttgacta gaaacacaaa acttccgttg ctgaagtgccc ccacatgt tcttggtta ataacactca ctgcaacctgc aacatctggt atactctgg atctggggcag aaactatca catttccctt gggagacatgt aacgacatua atgaatgtac accaaccat agtggattat gttgatttaa cgtctgtgtgt tacaatgttg aagtggaagt ctactgtcaa tgggtccag gatatagact gcatctgggg aatgaacat tcatgtatnc caatgagaac acctgtcagg acacacccc ctcaagata aco-gagggca ggaagagct gcaaaagat gttgacaaat ttgagtcact tctaccaat cagacttat ggaagacaga agtggaagacaa gaaatctcat ccacagctac cactatct cgggagtggtg aatcgaagaat tctagaact gcttggaag atccagaaca aagaatcttg aaaaacaaa acgtataggt agctatgaa actcaagcga ttacagcaa ttgtcttgaa gaaagaaaga catctaat gaaagctcaa atgaactcaa ttgacatccg ttgcaagtac atcatocagg gaaacacaca aggttccagt gccaatgct ttactcata ttctcttt ggaacacata taaatgcaac ttttttga gagaagata agaaagata agtggatctg aaactctcag ttgttgagtg tctatgga ccacaaaagga acgtgtctct ctocaaagtct gttacagctga ctttccagca cgttgaaagtg acccccagta ccaaaaggt cttctgtgtc tacttggaaga gcacagggca gggcagccag ttgttccagg agtgctgtct ccttgatacac ttgaaacaga ttcaacacat gttgaattg agttacactgt ccagcttctgc tggcttgag gctctgacca gccaaggaaga ttggttccctgt ctgtctgtca tcaactagt ggggtctgagc gttctctagc tggctctct ccttgagggcc ctactttt tcttggttaa agccacacag aacacacagca cctcaatgca tctgcaagc c tggctctgccc tcttctgccc ccacctctgc ggaatgtatg aactgaaccc aaggtgtctgt gcttccatcat cgtcgggtgct ttgcactatc tctactggcc cgtcttccac ttgagctgag ggaaggtgt gcaactcttc ctactgac ggaacccagc agtgggtcac tactcaagca tcaatgact catgaaagtg atcatgtcc cagtgggcta tgggttccc gctgtgactg ttggccattc ttgcaagctcc ttggctccac ttatggaac ttgttgaatga ttctgtgtccc accttggaoca ggggaatcag ttgggtttcc ttggccagt ctgtgcca ttactgtcca attatgttg gttatcttg gttttttgga ttgtgaaga aaaaatttcc tccctcaata gttgaagtg acacacacaga tgc-tgggttt caaagcaaca gttcagctct tcatctgggg ctgacatagg ttgtttgggt ttgtaagagtt ggggttccagtt ttggccatgca ttggttccat ctacacatc</p>					

Accession	Gene	Protein	Function	Species
653	NP_115960.1	EGF-Like Module-Containing Mucin-Like Receptor EMR3	MOGFLLLPL CFLSLFAGV TQIKITSCAK CPNASCNVN THCTCNHGYT SSGQKLFTE PLETNDINE CTPPYSVYCG FNAVYCNVEG SFYQCQVPGY RLHSGNEQFS NSNENTCQDT TSSKTTEGR ELQKIVDKFE SLLTNQILWR TEGRQEISST ATTILRDVES KVLETALDOP EQKVLKIQND SVAIETQAIT DNCSEERKTF NLNVQMSMD IRCSDIUQGD TQGPSAIAFI SYSSLGININ ATTFEEMDKK DQVYVLSQVV SAAIGPKRNV SLKSVTLTF QHVKMTPTSK KVFCVYWKST GQGSQWSRQV CFLIHVYNKSH TMCNCSHLSS FAVLMALTSQ EEDPVLTVIT YVGLSVSLIC LLLAALJTL LCKAIQNTSTS LHLQLSLCLF LAHLLFLVGI DRTEPKVLC S IIAGALHLYL LAAFTWMLLE GVHLFLTARN LTVVNYSSIN RLMKWMFPV GYGVPAAVTV ISAASWPHLY GTADRCWLHL DQGFMSWFLG PVCAIFSANL VLFIL VFVWL KRKLSSLNSE VSTIQNTRML AFKATAQLFI LGCTWCLGLL QVGPAQAQVMA YLFTIINSLQ GFFIELVYCL LSQQVQKQYQ KWFEIVKSK SESEITYTLSS KMGPDSPSE GDVFPQGQVKR KY	Homo sapiens
654	CAC21687.1	G Protein-Coupled Receptor d1402H5.1	KHAYICLAAY WAYASFTWM PLVGLGDYVP EPFGTSCITD WYLAQASVGG QVFILNLF CLLLPTAVIV FSVYKIIAKV KSSSKEVAHF DSRHSHSVL EMKLTKVAML ICAGFLIAWIPYAVVSVWSA FGRPDSIPIQ LSVVPTLLAK SAAMYNPIIY QVIDYKFACC QTGGLKATKK KSLGFRLLHT VTTVRKSSAV LEIHEEV	Homo sapiens
655	NM_001407	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	agc-gaaccat cggggcgagcc gggaagccag ttggagcgggc gggaagcgggc agcagcgcgcg gggaagtcgtt gggtggggggcg ggaagaagcca gggtccggcagc ccgggaaggggcg tccggccggcg gaggtaagatgg ttcccaagagg gcggcgggggggc tggcgggagg ggccggggggcc cggggcgggcg gcagggggggcc gggaaggggggc ccggcgggcg gggtccagggc cggcgcgggc cggcgcgggc gggtccggcg ccaatctctt gctctctt cctcttgt tccccctcag ccaggagggag ctggggggggcg gggtgggacca gggtgggggac ccaggcttag ctgcacacac gggtcccaagg gcgcatatgg gggtggggcg cttagctctt ttgtgggaagt ctccgggggt ccgggaaggga gggtggggcccg gctggcgggggc gagggagagctt aucttctgg gggtccggagg gaagaggcca agcgcccgga atagctggagg gcccccgagg cagcccggaatg aggaagctgggg gattgaacac gggtccagc cattgggag ccgggaacga gaagacaggaag aggggaacaggg gttctgttga tacttggggcc caggaaggtct ctctggggc gggaacagg aggttagtctt ttacocaggggg ctgtgtctc agggggggcc gggtcgggga acaggctggc cttcttca gacttttga ttccggcaca ccgttcccaa ccgttggctt cccagcgga cggctggggga gggtcccgca aaagtagtggc caaccggcg tctgttggggg aattatggggc aaacaggggagc aaagggttcaagg gcgaagaagagc cagagacattcc gggaaggaagg accagagctccc ccggcggggaac tggcttccag gggtccctgggg atcttggcccc gggtctggatt caggcacaagg caggggaagg accagctctt cattcagggtt agcacaacccgg gaggcttcggga cagctccagg gttccggcgcc agggcgatcg gctcccggggg tctctcccg ttccggcttcc tcccgaggc ccgccggggcg ccgtccccggg gactccccggc ccgttctgaagg gccaagggaag taacctggcg gaacccgggca ccgttcttgc gggtccggcaca ccggccacaccc cagtttccggc aggtacaacia ccaggagctt aggaagcagg aggtccacggcg gggtctagcg ttgttggctca gggaacccgggac gcccggcgagg ccgggtccggct ctggcggggac ttggcggggac ttgaagaacag ccgggtatggctt gaggctggca gcatggagacc	Homo sapiens

[illegible]

[illegible]

[illegible]

656	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	gcaaaaggag cagaacaacg ggaattcaag accaagaalg taggtgocac tgcctctat gttuacagga tccctcggg ccctagccac ctggcgta ggaagtgc cgttccact cctcttatt tccctaaaa agggaaaaat gactgtiacc aacctgttca caaaactct actttgtc tttgtctgc tgcacgaac tgaagactt aaaaattgt tactgtttac aagtcagat tcaaaaaag tttttacti gttuacact caaaacttg agttuacac ttgtttaca gtagtaatt tttttctt tttttccaa tgaaggtag ggaagtgga agaggactt ggaagaccca cctgtgaga cctgaactg gccatctga ggggtttct aaocccagg tctccaggc cgaaggtag cctgtgtcc cgtttacag cagatccaga agaccttga agtaggcgc cttaaccac agggagagat ggtgtgtcag ggtgtgtcag ggtgtgtcag ggtgtgtcag ggtgtgtcag ggtgtgtcag actctggga agcagcttc tgggagatg gaaatctac tttcctgact ggaagtaaat cccacagcc aggaacaaa ctctctiac cgaagaagac cccagctct gaaaggctga gttgcctgt ggggtgtgga ggtgtgtt actatgtct aggtttga gttgcctc tctgggttc cctcttcca gccaggggc cctcttct gctgtgtat attgttccg gaagccgcgc tctgtttgg gaataacti ctatagaaa caaaa MMARRPPWRG LGERSTPILL LLLLSLFLS QEELGGGGHQ GWDPLAATT GPAHIGGA LALCPSSGV REDGGPLGV REPfVGLRG RRQSARNSRG PPEQNEELG JEHGVQPLGS RERETGQPG SVL YWRPEVS SCRTGPLQR GSLSPGALSS GVPGGNSSP LPsDFLIRHH GPKPVSSQRN AGTGRKRVG TARCCGELWA TGSKGQGERA TTSGAERTAP RRNCLPGASG SGPELDSAPR TARTAPSGS APRESRTAPE PAPKMRMRG LFRCRFLPQR PGPRPPGLPA RPEARVTSa NRARFRAAN RHPQPQYNY QTLVPENEAa GTAVLRVVAQ DPDAGEAGRL VYSLAALMNS RSLELFSIDP QSGLIRTAaA LDRESMERHY LRVTAQDHGS PRLSATTMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY PILQLRATDG DAPPANLRY RFVGPPAARA AAAAAFEIDP RSGLISTSGR VDREHMESE L VVEASDQOQ EPGPRSATVR VHITVLDEND NAOFESEKRY VAQVREDVRP HTVVLRVTA DRDKDANGLV HYNISGNRS GHFAIDSLTG EIQVVAPLDF EAEREYALRI RAQDAGRPL SNNTGLASIQ VVDINDHIPI FVSTPFQVSV LENAPLGHSV IHQA VDADH GENARLEYSL TGVA PDTPFV INSATGWVS SGPLDRESVE HYFFGVEARD HGSPPLSAs SVTVTVLDVN DNRPEFTMKE YHLRLNEDAA VGTSVSVSTA VDRDANSAs YQITGGNTRN RFAISTQGGV GLVTLALPLD YKQERYFKLV LTASDRALHD HCYYHINTD ANTHRPVFQS AHYSVSVNED RPMGSTTVI SASDDDVGEN ARITYLLEDN LPQFRIDAS GAILTQAPLD YEDQVITYLA ITARDNGIPQ KADTTYVEVM VNDVNDNAPQ FVASHYTGLV SEDAPPFTSV LQISATDRDA HANGRVQYTF QNGEDGDGDF TIEPTSGIVR TVRRLDREAV SVYELTAYAV DRGVPLRTP VSIQVMVQDV NDNAPVFAE EFEVRVKENS IVGSVVAQIT AVDPDEGPNH HIMYQIVEGN IPELFQMDIF SGELTALIDL DYEARQEYVI VVQATSAPLV SRATVHVRLV DQNDNSPVLN NFQILFNYYV SNRSDTFPSG IGRIPAYDP DVSDHLFYSF ERGNELQLLV VNQTSSELRL SRKLDNNRPL VASML VTVTD GLHSVTAQCV LRVVIITEEL LANSLTVRLE NMWQERFLSP LLGRFLEGVA AVLATPAEDV FIFNIQNDTD VGGTVLNVSF SALAPRGAGA GAAGPWFSSSE ELQEQLYVRR AALAARSLLD VLPFDDNVCL REPCENYMKC VSVLRFDSSA PFLASATLF RPIQPIAGLR CRCPPGFTGD FCETELDLCY SNPCRNGGAC ARREGGYTCV	P	Homo sapiens
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DTEAGRCV PGVCRNGGTC TDAPNGGRC QCPAGGAFEG
SSFMFRG LRQRFHLTSLSFATVQQSG LLFYNGRLNE
QVRLTYST GESNTVVVPT VPGGLSDGQW HTVHLRYNKK
PSKDKVAVL SVDDCDVAVLQFGAEIGNY SCAAAGVQTS
LGGVFNLP ENFPVSHKDF IGCMRDLHID GRRVDMAAFV
KLHFCDSGP CKNSGFCSEWGSFSCDCPV GFGGKDCQLT
TLSWNFGSD MAVSPWYLG LAFRTRATQG VLMQVQAGPH
SVTVTRGS GRASHLLLDQ VTVSDGRWHD LRLELQEEPG
LDFSLFQDT MAVGSELQGL KVKQLHVGG LPPGSAEEAPQ
GSTPSGSPA LLPFSHRVNA EPGCVVTNAC ASGPCPHAD
QPGYYGPG CVDACLNPQ QNQGSCRHLPGAPHYTCDG
RMDQQCPRG WWGSPTCGPC NCDVHKGFDP NCNKTNGQCH
SCLPCDCY PVGSTSRSCA PHSGQCPCRP GALGRQCNSC
RVL YDACP KSLRSGVWVP QTKFGVLATV PCPRGALGAA
EPDLFNCTSPAFRELSLL DGLELNKTAL DTMEAKKLAQ
YFSQDVVVT ARLLAHLAF ESHQQGFGLT ATQDAHFNEN
TGDLWAAAL QORAPGGSPG SAGLVRHLEE YAATLARNMIE
NIMLSIDR MEHPSSPRGA RRYPRYHSNL FRQDADWDPH
SPSEVLPT SSSIENSTTS SVVPPAPPE PEGGISIIL LVYRTLGLLL
RLPQNPMN SPVSVAVFH GRNFLRGILE SPISLEFRLL
WDPPGLAE QHGVWTDAC ELVHRNGSHA RCRCSTGTGF
LEGDELLA VFTHVVAVS VAALVLTAAI LLSLSLKSNS
GVAELLFL LGHRTNQL VCTAVAILLH YFFLSTFAWL
VEPRNVDRG AMRFYHALGW GVPVLLGLA VGLDPEGYGN
IWSFAGPV VL VVMNGTM FLAARTSCS TQOREAKKTS
VSASWLF GLLAVNHSIL AFHYLHAGLC GLQGLAVLL
WMPACLGRK AAPEEARPAP GLPGAYNNT ALFEESGLIR
ARSGRTQ DQDSQGRSY LRDNVLRHG SAADHTDHS
AMFHRDAGA DSDSDSL SEERSLSIPS SESEDNGRTR
SERLLTHP KDVDGNDLLS YWPALGECEA APCALQTWGS
ANNQDP ALTSGDETS L GRAQRKGI LKNRLQYPLV
RAATLGHR AVPAASYGRI YAGGTGSLSPASRYSSRE
ERLEEAPA PVLRLSPRG SQECMDAAPG RLEPKDRGST
AMAGRFS RDALDLGAPR EWLSTLPPR RTRDLDPQP
DPLPSRP LDSLSRSSNS REQLDQVPSR HPSREALGPLQLLRAREDS
LDLSSIL ASFNSSALSS VQSSSTPLGP HTTATPSATA SVLGPSTPRS
EVPSEGH
cca gctccaac agcagttggc cctaagtca gaattgggact aacatgagg ccaccocggc
t ccaactatca gcaactcc cctgtggcgg ccaatgtcat tttgtgctat ggcgtcatct tctgtctg
tgg tctgttcat cgtgtcaag aacggcaca tgcatactgt caccacaatg ttacatcca

A Homo sapiens

[illegible]

[illegible]

[illegible]

666	194745	G Protein- Coupled Receptor SLT7/MCH2	NP_115892.1	<p>aaocatttgc actgacacgt tggagaacaa ggataagac catocgac aatttggcc ttgtttatc cggcattgc ctgtctgggt ctatcgaaag gatacaaat taagaagcg tggtagagt tggctttg attgacalc cccgacgat gtacttctgt atacacttia ttgacgata acaactttt ttuccctt acccttgat ttgtgtgtct atattttaat ttatgtctat acttgggaga tglatacaa gaataagat gccagatgct gcaatccag tgaatacaa cagaagatga tgaagtggac aaagatggg ctgtgtctgg tggtagtct taocctgagt ctgtccctt atcagctt acacttggg aacttacaga tggacaagcc cacactggcc ttctatgtgg gttattact ctccatctg ctacagatg ccagcagcag cattaaacct ttcttaca tctgtctgag tggaaatc cagaaacgic tgcctcaat ccaagaaga ggcacttga aggaataca caatagggga aacactctga aatcacacti taagaagagt acatgagatc acatgagct gttactta ctgttattat taagaaggcg aggtgtacccg atatgttat gccattct ctgtgtact tgtgtactt agcagcatgg aagaagaagt taaccatga aatacaatga gcttaatatg ctaactgaa aaaaaaaa aaaaaaaa</p> <p>MNPFHASCWN TSAELLNKS W NKEFAYQTAS VVDTVILPSM IGIICSTGLV GNILIVFTII P RSRKKTVPDI YICNLAVADL VHIVGMPFLI HQWARGGEVW FGGPLCTIIT SLDTCNQFAC SAIMTVMSVD RYFALVQFPR LTRWRTRYKT IRINLGLWAA SFILALPVWV YSKVIKFDG VESCAFDLTS PDDVLWYTL YLTITFFPL PLILVCYILI LCYTWEMYQQ NKDARCCNPS VPKQXVMKLT KMVLVLVWF ILSAAPYHVI QLVNLQMEQP TLAFYVGYL SICLSYASS INPFLYLLS GNFKRLPQI QRRATEKEIN NMGNTLKSHP</p>	Homo sapiens
667	194756	Chemokine Receptor FKSG80/GPR81	NM_032554	<p>ccacacac aggaacccga tcttgggtga tgaagtacga cagcagcagc ctgggtgagt gctaacgctc agataagcat ctgtgcatc tgggggctc ctggggctc tctgacccg gacactgct ctgtccccc catgtacaac gggctgct ggcgatcga ggggggacac atctccagc tgaatccgoc gctgctcat tggcccttg tctggggcg actaggcaat ggggcgccc tgtgtgtt ctgtctcac atgaagacct ggaagccag cactgttac ctcttaati tggccggggc tgaattccc cttatgact tgggtgctt tgggacagac taataacca gacgtaga ca tgggctt gggggacatc cctgtccgat gggggctctc acgttggcca tgaacagggc cgggagcatic gtttctcta cgggtggggc tgcggacagg taattcaaa tgggtacccc ccacacggc g'gaacacta tctccaccc ggtggcgctt gggcatgctt gcaacctgg gggccctggc atccctggga cagtgtact ttgtctggag aacactctt ggcgtgcaaga gacggccgic tccgtgaga gcttcatc gggagcggcc aatggctggc atgacatcat gttccagctg gagtcttcta tgcctccg catcatctia ttgtctct tcaagatgt ttggagctg agggcgagcc agcagctggc cagacaggct cggatgaaga agggcgaccc gttcatcag tgggtggcaa ttgtgtcat cacatgtac ctgcccaggg tgtctgttag acttattc ctctggacgg tgcctcgag tgcctcgat cctctgctc atggggccct gacalaacc ctacgttca octacatga cagcatgctg gttccctgg tgtatttt ticaagccc tctttccca aatcttcaa caagctcaa atctgcagtc tgaacccaa gcagccagg caactcaaa cacaaggcc ggaagagatg ccaatttga acctggctg caggagttgc atcagttgg caaatgtt ocaagccag tctgtatggc aatgggatcc ccacattgtt ggttggcat gaacagcag accacaca ctgaggaaga tgggtggg acttagaatt aacttggct aagggtcgg gggcttga aatgccacc occitctia ttgcaagagc gcttctgca catgaactgc atctctca ttcttggga aatgaatc acacaact acccttgg gaggctcag tt</p> <p>MYNGSCRRP GDTISQVMP LLIVAFVLGA LGNGVALCGF CFHMKTWKPS P TVYLENLVA DELLMCLPF RTDYVLRRLH WAFGDPCRV GLFTLAMNRA GSIVFLTVVA ADRYFKVVP HHA VNTSTR VAAGIVCTLW ALVILGTYYL LLENHLCVQE TAVSCSFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQOLA RQARMKKATR FIMVVAIVEI TCYLPVSAR LYFLWTVPS ACDPSVHGAL HITLSFTYMN SMLDPLVYF SSFSPKFPYN KLIKCSLKP</p>	Homo sapiens
668	194756	Chemokine Receptor FKSG80/GPR81	NP_115943.1		Homo sapiens

[illegible]

[illegible]

[illegible]

[illegible]

677	194904	WO0034334- hFB41A	AX147788	<p>VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLG HQRVVTFGHH CCFECVPCGA GTFLNKSELY RQPCGTEW APEGQTCFP RTVVFLALRE HTSWVLLAAN TLLLLLLGT AGLFAWHLDT PVRSAAGRL CFLMLGSLAA GSGSLYGFGEPTRPACLLR QALFALGFTI FLSCLTVRSF QLIHFKFST KVPTFYHAWV QNHGAGLFVM ISSAAQLLIC LTWL VVWTP L PAREYQRFPH LVMLECTETN SLGLAFLY NGLLSISAF A CSYLKDLPE NYNEAKCVTF SLLNFVFSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFPLKCYV ILCRPDLNST EHFQASIQDY TRRCGST</p> <p>gagacacag alctittig aglactigac gfgtgcctt ttgacgtca cpaaagcacag agtntgac atgctgtgc tcatggcgat gcatctgacg atgtagaag cagttaggta gctcttcc ttacaaca cgtgttgagaa gaagtgcgc acgagtggga agccgtagaag gggcgccacag calagcacgt agggcggtgag gatgcacag agcacacag cggctctct ggcggcagcgc agcctctgc ggtatctctc tctctgaa ctagggaccc ccttgaaca gactcccg gtagtctcgg calagacag ggtcatgttg accacggggc ccacgaatc taagcaaa ataaagagga agtggacat gtatgtagagc tgcgtgtcca cagccagat ctggccggag aagatcttt cctggctct gacatgacg aggaacgtct cgggtggga gtagggcgga gggaaggcga tcaagtagga caaccgtcac accaaggcaa tcaaggcagt ggcgtgtgg cactcatic gtgtgtctag cggaaggaca atagccagat acctaggcca agaacacaag tggagggac c</p> <p>MGFMDDNATN TSTSFLSVLN PHGAHATSP FNFYSYSDYDM PLDEDEDVTN SRTFFAAKIV IGMALVGIML VCGIGNFET AALVRYKKLR NLTNLLJANL AISDFLVAIV CCPFEMDYV VROLSEWHGH VLTCTSVNYLR TVLSYVSTNA LLAIDRYL AIVHPLRPRM KCQTATGLJA LVWTVSILIA IPSAYFTTET VLIVKSOEQ IFCGQIWPVD QQLYKSYFL FFGIEFVGP VVTMLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFEFTVF VKEKHLYLTA YVVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGGKSSADL DLKTIGMPAT EEVDICIRLK</p>	Homo sapiens
678	194904	WO0034334- hFB41A	LR114	<p>ggaacagagc gcccgcgcgc atgttgagat gcaagtaggt caacggcaca gggctgtggg aggaagctgc tgcctgcag gaactgcagc tggggctgic actgtgtgc ctgttgggcc tgggtggggg cgtgtcagtg ggcctgtgt acacagcct gctgtgtctg gccaactac acagcagagc cagcagtagc atggccggagc tgaattgt caacatggga gttgcagggcc tgggtctag cgccttgcc ccgtgtcaac tgcctggccc ccggagctcc cgtgtgggggc tggtaggtgt gggcggggga gtccagtg cactgcagat cccctcaat gtgtctcac tgggtgtcag gtaacac ggcctgtcga gctgtgaca ctacatggc cgtgcacgc cgcggaccta cagtgccagc gtgtacaca cgcggggcagc gtgcggcttc gtgtggggg tgcggctgt gaaagcttc tctctgct tcttcaat ctgcagccat gttgtcaac ggcctgcac tgggtgtcag gttgcag atgtcagagc caggaagctgc cgaagccagc ctgtgttca tgggttagct gttgttcagca ctgggcaaac tctagcgtct gggtgctatc tcccgctcc gcaaggagga cacgcctctg gacccgggaca cggggcggct ggaagccctg gcaacagggc tgcgtggg caccgtgtgc acgcagtttg ggtctgtgac gccaactat ctgaactgc tgggggcacac gttcaltc tcgtcagagga agccgtgtga cgtcacatc ctggggctac tgcattgt gtagggatitc tccaaactc tggctctc cagcagctt gttgacacac ttcttacc ctatctaac cagatcttc cagcagct ccaacggctg atgtanaagc tgcctgtgc ggaacggcac tgcctcccg accaatggg ggtgtcaagca gttctgggt agggcgga ggcctctgg gggaagagga caggtgggg gttttctg aagttctt ttccacaa atgcactat tgggtccaggt ctgtgtgtcc cgtgtgtgct atctgtgtt agttccccc aggtctgtgt gcttccaaa cagcagagctc aaggtccaca tctgtanaag cgtgtgtgct atctgtgtt agttccccc aggtctgtgt gcttccaaa cagcagagctc aaggtccaca tctgtanaag</p>	Homo sapiens
679	194905	G Protein- Coupled Receptor MGC7035	BC014241	<p>ggaacagagc gcccgcgcgc atgttgagat gcaagtaggt caacggcaca gggctgtggg aggaagctgc tgcctgcag gaactgcagc tggggctgic actgtgtgc ctgttgggcc tgggtggggg cgtgtcagtg ggcctgtgt acacagcct gctgtgtctg gccaactac acagcagagc cagcagtagc atggccggagc tgaattgt caacatggga gttgcagggcc tgggtctag cgccttgcc ccgtgtcaac tgcctggccc ccggagctcc cgtgtgggggc tggtaggtgt gggcggggga gtccagtg cactgcagat cccctcaat gtgtctcac tgggtgtcag gtaacac ggcctgtcga gctgtgaca ctacatggc cgtgcacgc cgcggaccta cagtgccagc gtgtacaca cgcggggcagc gtgcggcttc gtgtggggg tgcggctgt gaaagcttc tctctgct tcttcaat ctgcagccat gttgtcaac ggcctgcac tgggtgtcag gttgcag atgtcagagc caggaagctgc cgaagccagc ctgtgttca tgggttagct gttgttcagca ctgggcaaac tctagcgtct gggtgctatc tcccgctcc gcaaggagga cacgcctctg gacccgggaca cggggcggct ggaagccctg gcaacagggc tgcgtggg caccgtgtgc acgcagtttg ggtctgtgac gccaactat ctgaactgc tgggggcacac gttcaltc tcgtcagagga agccgtgtga cgtcacatc ctggggctac tgcattgt gtagggatitc tccaaactc tggctctc cagcagctt gttgacacac ttcttacc ctatctaac cagatcttc cagcagct ccaacggctg atgtanaagc tgcctgtgc ggaacggcac tgcctcccg accaatggg ggtgtcaagca gttctgggt agggcgga ggcctctgg gggaagagga caggtgggg gttttctg aagttctt ttccacaa atgcactat tgggtccaggt ctgtgtgtcc cgtgtgtgct atctgtgtt agttccccc aggtctgtgt gcttccaaa cagcagagctc aaggtccaca tctgtanaag</p>	Homo sapiens

680	194905	G Protein- Coupled Receptor MGC7035	LR112	<p>cctcctggcc ttacgctcc tcagcattca gttgtcaat gaagtgaiga aagcttagag ccagttatta tactttggg ttaaaatact tgattccoc ttgttgtt tacaaaaa gattgttct agzaaaatga caaalagtaa aatgaacaaa accctacgaa agaattggcaa cagccagggt ggccaggccc tgcagtgagg cggcgtgtgc tagcaaggcc tgcagggtgt gcgcgagtgta ccacagggtt ctgagzaatc ttacagaag tgcctgagac gcggagacat ggctgggttt aaatggagct attcaatagc agtgacgccc ttcttcagc caacaaatgt ccttgacac cccacagcc ccacagata acatcagctg aggtttttt cagtaigaac ctgtctaaa tcaattctc aaagtgtga caaaataaa gaataaat aaacaaaga aagtgaaaa aaaaaaaa aaaa MWSCSWFNGT XL VEELXACQ DLQLGLSLLS LLGLVVGVPV GLCYNALLVL ANLHKSASMT MPDVVFVNMA VAGLVLSALA PVHLLGPSS RWALWSVGGE VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIGYVVPV LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLYRYMN QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACCG CTGGGGCCG CCAGGCGCG GGAATGTCCC CTGAATCGC GCGGCGAGCG GCGGACGCG CCTTGGCAG CTTGGAGCAA GCCAACCGCA CCGCTTTCC CTCTCTCC GACGTCAAGG GCGACCACCG GCTGGTGCTG GCGGCGGTGG AGACAACCGT GCTGGTGCTC ATCTTTGCAG TGTCGCTGCT GGGCAACGTG TCGCCCTGG TGCTGGTGGC GCGCGACGA CGCGCGCG CGACTGCCG CTGTGACTC AACCTCTCT GCGCGGACCT GCTCTTCATC AGCGCTATCC CTCTGGTGTCT GCGCGTGGC TGGACTGAGG CCTCCCTGCT GGGCCCCGTI GCGTGCCACC TGCTCTCTA CGTGATGACC CTGAGCGGCA GCGTCACCAT CCTACGCTG GCGCGGTCA GCGTGAGGG CATGTGTRGC ATCGRGACC TGGAGCGCG CGTGGCGGT CCTCGCGGC GGCGCGGGC AGTGCTGCTG GCSCTCATCT GGGCTATTY GCGGTGCGC GCTCTGCC TC TGCGTCTT CTITCGAGTC GTCCGCAAC GGCTCCCCG CGCGACCA GAAATTGCA TTTCACACT GATTGGCCC AGCATTCCTC GAGAGATCTC GTGGGATGTC TCTTTGTTA CTTTGAACIT CTITGGTGCA GGACTGGTCA TTGTGATCAG TTACTCCAA ATTTTACAGA TCACAAAGG ATCAAGGAAG AGGCTACCG TAAGCCTGG CTACTCGGAG ACCCACCAGA TCGCGGTGTC CCAGCAGGAC TTCCGGCTCT TCCGACCCCT CTTCCTCCTC ATGGTCTCCT TCTTCATCAT GTGGAGCCCC ATCATCATCA CCATCCTCCT CATCTGATC CAGAACTTCA AGCAAGACCT GGTATCTGG CCGTCCCTCT TCTTCTGGGT GGTCCCTTC ACATTGCTA ATTCAGCCCT AAACCCCATC CTTACACA TGACACTGT CAGGAATGAG TGGAAAGAAA TTTTGTCTG CTTCTGTTT CCAGAAAAG GAGCCATTTT AACAGACACA TCTGTCAAAA GAAATGACTT GTCGATTATT TCTGGCTAAT TTCTTTATA GCCGAGTTTC TCACACCTGG CGAGCTGTGG CATGCTTTA AACAGAGTTC ATTCCAGTA COCTOCATCA GTGCACCCCTG CTTTAAGAAA ATGAACCTAT GCAAAATAGAC ATCCACAGCG TCGGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTGT TTGGCCAGGT GCAGTGGTTC ATGCTGTAA</p>	P	Homo sapiens
681	194907	G Protein- Coupled Receptor 14273	LD22826	<p>QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACCG CTGGGGCCG CCAGGCGCG GGAATGTCCC CTGAATCGC GCGGCGAGCG GCGGACGCG CCTTGGCAG CTTGGAGCAA GCCAACCGCA CCGCTTTCC CTCTCTCC GACGTCAAGG GCGACCACCG GCTGGTGCTG GCGGCGGTGG AGACAACCGT GCTGGTGCTC ATCTTTGCAG TGTCGCTGCT GGGCAACGTG TCGCCCTGG TGCTGGTGGC GCGCGACGA CGCGCGCG CGACTGCCG CTGTGACTC AACCTCTCT GCGCGGACCT GCTCTTCATC AGCGCTATCC CTCTGGTGTCT GCGCGTGGC TGGACTGAGG CCTCCCTGCT GGGCCCCGTI GCGTGCCACC TGCTCTCTA CGTGATGACC CTGAGCGGCA GCGTCACCAT CCTACGCTG GCGCGGTCA GCGTGAGGG CATGTGTRGC ATCGRGACC TGGAGCGCG CGTGGCGGT CCTCGCGGC GGCGCGGGC AGTGCTGCTG GCSCTCATCT GGGCTATTY GCGGTGCGC GCTCTGCC TC TGCGTCTT CTITCGAGTC GTCCGCAAC GGCTCCCCG CGCGACCA GAAATTGCA TTTCACACT GATTGGCCC AGCATTCCTC GAGAGATCTC GTGGGATGTC TCTTTGTTA CTTTGAACIT CTITGGTGCA GGACTGGTCA TTGTGATCAG TTACTCCAA ATTTTACAGA TCACAAAGG ATCAAGGAAG AGGCTACCG TAAGCCTGG CTACTCGGAG ACCCACCAGA TCGCGGTGTC CCAGCAGGAC TTCCGGCTCT TCCGACCCCT CTTCCTCCTC ATGGTCTCCT TCTTCATCAT GTGGAGCCCC ATCATCATCA CCATCCTCCT CATCTGATC CAGAACTTCA AGCAAGACCT GGTATCTGG CCGTCCCTCT TCTTCTGGGT GGTCCCTTC ACATTGCTA ATTCAGCCCT AAACCCCATC CTTACACA TGACACTGT CAGGAATGAG TGGAAAGAAA TTTTGTCTG CTTCTGTTT CCAGAAAAG GAGCCATTTT AACAGACACA TCTGTCAAAA GAAATGACTT GTCGATTATT TCTGGCTAAT TTCTTTATA GCCGAGTTTC TCACACCTGG CGAGCTGTGG CATGCTTTA AACAGAGTTC ATTCCAGTA COCTOCATCA GTGCACCCCTG CTTTAAGAAA ATGAACCTAT GCAAAATAGAC ATCCACAGCG TCGGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTGT TTGGCCAGGT GCAGTGGTTC ATGCTGTAA</p>	A	Homo sapiens

682	194907	G Protein- Coupled Receptor 14273	LR116	<p>TCCAGCAGT TTGGGTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTTG AGACCAACCT GACCAACATG GTGAGACCCC CGTCTCTACT AAAATAAAA AAAAAATTA GCTGGGAGTG GTGGTGGGCA CCTGTAATCC TAGTACTTG GGAGGCTCAA CCACGAGAA CTCTTGAACC TGGGAGGAC AGGTGACAGT GAGCGGAGAT CGTGCCATTG CACTCCAACC AGGCAACAA GAGTGAAACT CCATCTTAA AAAAAAAA AAAGATTGTTGT TATGGGTTCC TTTTAAATGT GAACTTTTT AGTGTGTTTG TATATGATCA AATTAAATA ATATTATTT ATGACTGTTC AGCAAAAAA AAAAAAAA AGGGCGG MSPECARAAG DAPLRLEQA NRTRPFSSD VKGDHRL VLA AVETTVLVLI FAVSLGNVC ALVLVARRRR RGATACLVLN LFCADLLFIS APLVLVVRW TEAWLLGPVA CHLLFYVMTL SGSVTILILA AVSLDRMVCI VMLQRGVRCR GRRARAVLLA LIWGYSAVAA LPLCVFRVW PQLRPGADQE ISICTLIWPT IPGEISWDVS FVTNLNYPG LVIVISYSKI LQTTKASRKR LTVSLAYSRS HQIRVSQQDF RLFRITLFLM VSFIMWSP I DITLILLIQ NFKQDLVIWP SLPPVWVAPT FANSALNPIL YNMTLCRNEW KKIFCCTWEP EKGAILTDT S VKRNDLSIIS G ITYSAJSDDEL RDKVREFALL RTTPSADHHV EAMVOLMLHF RWNWITVLVS SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMST EERQRLVTIV DKLQQSTARV VVVFSPDLTL YHFFNEVL RQ NFTGAVWIAS ESWAIDPVLH NLTELGHGT FLGITQSV IPGFSEFEW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVVSVYSA VYAVAHALHS LLGCDKSTCT KRVVYPWQLL EEIWKVNFIL LDHQIFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYPL QRLKNIKTS LHTVNNTIPM SMCSCRQSQG QKKKPVGHHV CCFECIDCLP GTFLNHTCEP NNEWSYQSET SCFKRQLVFL EWHEAPTIV ALLAALGFLS TLAILVIFWR HFQIPIVRSA GGPMLFLMLT LLLVAYMVVP VYVGPVK VST CLCRQALFPL CFTICISCIA VRSFQIVCAF KMASRFPFRAY SYWVRYQGPY VSMAFITVLK MVVVVIGMLA RPQSHPRITDP DDPKITIVSC NPNYRNSLLF NTSLDLLSV VGFSFAYMGK ELPTNYNEAK FITLSMIFYF TSSVSLCTFM SAYSGVLVTI VDILLVTVLNL LAISLGYTFGP KCYMLFYPE RNTPAYFNSM IQGYTMRRD</p>	P	Homo sapiens
683	194908	G Protein-coupled Receptor Gpcrb4	LR117	<p>atgagcagca attcatcct gctggggcgt ggcagcgtg gctacgcgaa cgtgaaagg tctgtgtgga aaatccctt ctgcgcgga tcccggtga ttctgtacat aggtgtggc ttggggcgt gctggcgtg gttggaaac ctctgtgga tgaattcaat octocattic aagcagcgtc acttcocgac caattctc gtgcctctc tggccgtgc lpatcttg gtgggtgga ctgtgagoc cttcagcalt gtcagacagg tggagagcgt ctggaattt gggagagagtt ttgtactt ccacacctgc tgtgagtggt catttgta ctctctct ttcaactgt gcttcatct catgacagg tacaatgg ttactgacc octtgctat octaccaagt tcaccgtac tgtgtcagga attgtcaica gctgtgtctg gactctgccc ctcatgaca gctggcgtg gttctacaca ggtgtcalt acgagtggt ggaggaatta tctgtgccc taaactgtat aggaaggtgt cagaocgttg taaatcaaaa ctgggtgtg acagatttc tatctctt tatacctac ttattatga taattatga tggtaacata ttctgttg ctgacagaca gggcgaanaag atagaaata ctgtgagcaa gacagaalca tctcagagga gttcaaaagc cagaatggccc aggaagagaga gaaaagcagc taaaacctgc ggggtcaca tggtagcatt taigtattca tggtaacct atagcattga ttcaattt galgcttata tgggcttata aacctctgc tgtattatg agatttgctg ttgggtgtgt tatataact cagccatgaa tctttgat tatgcttat ttaccatg gtttaggaaa gcaataaag</p>	P	Homo sapiens
684	194957	Trace Amine Receptor 4 (TA4)	AF380192		A	Homo sapiens

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttaattgaac tggcaggtt ttaagaaca gttcagaac calgaattg ttttcgaac atataaa MSSNSLLVA VQLCYANVNG SCVKIPSPG SRVILYTVFG FGA VLA VFGN LLVMISILHF KQLHSPTNEL VASLACADEL VGVTVMPFSM VRTVESCWFYF GRSFTFHTC CDVAFCYSSL FHLCFISIDR YIAVTDPLVY PKFTVSVSG ICISVSWILP LMYSGAVFYT GVYDDGLEEL SDALNCIGGC QTVVNQNWVL TDFLSFFIPT FTMILYGNL FLVARRQAKK IENTGSKTES SSESYKARVA RRERKAAKTL GVTVVAFMIS WLPYSDSLI DAFMGFTIPA CIYEICCCWCA YNSAMNPLI YALFPWFRK AIKVIVTGQV LKNSSATMNL FSEHI</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>atgacagca attttcca aactgttg cagcttggc atgaggagt gaaaggatc tgaattgaa ctoctaltc toctgggoc cgggtaalc tgaacagc gttagctt gggttgat tggaaalc tgaataga cttctgtc tattttaag cagctgcat ctoacaaca tttctcat gctctcgg cctgtgctga ctttgtga gggtgacg tgaicttt cagcagcgc aggacggcgg agagcgcgcg gtaattgga gccaatttt gtaactca cagtgctgt gtagtgccal ttgttacc ttctgtcctc cattgtgtc tcatctgcat cgaacagctac attgttgga cgaatccct ggctctgct accaagtca cgtgtctgt gtcggggaat tgcaicagcg tgcctggat tctgctctc acgtacagcg gvtgtgtt clacacgti gtaacatg atggcctgga ggzaattgta agtgctcctc actgcgtagg tggctgtcaa atattgtaa gtaacaggcgg gggttgata gattttcgt tatttcal acctacccct gttatgataa tttttacag taagatttt ctatagcta acaacaagc taataaati gaaactacta gtagcaaat agaaatcatc tcaagaagt ataaatcag agtggocaa agagaagaga aagcagctaa aacccgtggg gtcacggcac tagcaattgt tautcagg taacogata cagtgtat attaatgat gocttaagg gctocctgac ccttgcctat aictatgaaa tttgcgttg ggtgctat tataactcag ccatgaatc ttgattat gctctatt atctctgt taggaaagcc ataaaaacta tttaagg agatgta aaggctagt catcaocat tagttatt ttagaataa</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVLYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADELV GVTVMLFMSV RTVESCWFYF AKFTLHSCC DVAFCYSSVL HLCFICIDRY IVVTDPLVYA TKFTSVSVSGI CISVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAUKI ETTSSKVESS SESYKIRVAK RERKAATLG VTVLAFVISW LPYTVDDLID AFMGFLTPAY IYEICCCWSAY YNSAMNPLY ALFPWFRKA IKLLSGDVL KASSSTISLF LE</p>	P	Homo sapiens
688	194959	MrgX4 G Protein-Coupled Receptor	AY042216	<p>tgcaggtct tctctcgt ccatggaiga ccagtoctag tcaagaggt gtaacaaca cctcttg tttctgatt octocaactg aaagaanaat tcaagooacag gatagaataa tcatcgggtc caaagocctg gcccgaagag tgggggtgt tgaactaa tgtattccc atgtacacac agaactgtg tggcagtaga gaaagtgtcag gcttcaagt caacaagaac tggatttcaa actggatttg aggaacocca ccttggtaa gtagctaat atctgcgagc cctgttct cttcttta aatgaaggaca gtaaatccca taaggcaggg tgggtgggag aatcagaagt gatacagctg gtagacacal cttgttggtg ttocaggggg caocagacta gagtttctga gcatgctatc aacgtocca gttcttggtta caaaactgac acaatcaac ggacgtgtagg agactcctg ctacaatcag accgtgact tcaagggtct gacgtgcacat attccctg tgggactgac agtgaacagcg gtagtctct ggctcctggg ctaccgcatg cgtcaggaacg ctgtctccat ctacatctc aacgtggcg cagcagact cctctctc agcttccaga ttatagct gccaatagc ctacataa tcaagccatc catocgcaca atocctgtt ctgtgtagac cttctctac ttacagggc tga gtagct gaggccatc agcacocagc gctgcctg gctgtgtg occatctgt accgtggcg ccgccccaca cactgtcag cgtgtgtgtg tgtcctgctc tggggcctgt occgtgtgt tggtagtctg gtagtggaggt tctgtgactt octgttaagt gggtctgatt ctagtgtgtg tgaacgtca gatttcaac cagctgcgag gctgtatt ttatgtgtg ttctgtgt ttocagocctg gtocctgctg tcaaggatoc ctgtggatoc cgtgaagagc cgtgtgacag gctgtacagtt accatcctg</p>	A	Homo sapiens

689	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	<p>tcacagtgctt ggcttctctt cctctgggoc tggoccttgg cattctgggg gcoctaattt acaggaalgca cctgaatttg gaagtcttat attgtcatgt ttatctgggt tgcaltgccc tgcctctctt aaacagtagt tgcacoccca tcatattctt ctcttggggc tcttiaggc agcgtcaaaa taggcagaac ctgaagcttg ttctccagag ggctctgcag gataagcctg aggttgagataa aggtgaagg cagcttcttg aggaagcctt ggagctgctg ggaagcagat tggggccatg agggagagoc tctgocctgt cagtcagacg ggactttgag agcaacactg tcttgccac ctfgacaattt acatgcgtt ttcttgaggt ttgccttcag aaatgcttca gttgaact aggctcttca aaaaatgtt tatcaact gacatgca gtttacc aggaagaagc ttgtctgac agtacaatgt ttgg MDPTVPVFGT KLTPINGREE TPCYNQTL SF TVLTCTIISLV GLTGNAVVLW P Homo LLGYRMRRNA VSIYILNAA ADFLFSFQI IRSPRLINI SHLRKILVS VMTFPYFTGL sapiens SMLSALTER CLSVLWPIWY RCRPHTLSA VVCVLLWGLS LLFMSLEWRF CDFLFSGADS SWCETSDHP VAWLFLCVV LCVSSLLVLLV RILGSRKMP LTRLVVTILL TVLVFLCGL PFGILGALY RMHLNLEVLY CHVYLVCM SL SSLNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE ESLELSGRL GP</p>
690	195015	G Protein- Coupled Receptor GPR82	AF411111	<p>atgaacaca atacaacatg tartaacaca tctatgact ctctcatggc ttacaacac atttacaacc tctttgtat tgttggtgt tttggzaaca cttctctca atggatatt ttacaacaaa taggtzaaaa aacatcaacg cacatctacc tgcacacct tgtgactgca aaacttactg tgtgcaatgc calgcttctt atgagtatct atttctgaa aggttttccaa tgggaalac aatctgctca atgcagagtg gtcaatttc tgggaactct atocalgat gcaagtatgt ttgtcagttt ctaatttta agtttgatg ocahaagccg ctaigtctac ttaalgcaaa aggaattctc gcaagagact acttcatgct atgagaaaaa attttatggc catttactga aaaaatttgc ccagocccaa tttgctagaa aactatgcat ttacatagg ggaagtgttac tgggcataat cattccagtt accgtatact actcagtcac agaggctaca gaagagaag agagocctatg ctacaatcg cagaaggzacc taggagccat gactctctcag attgcaagtc tcatggzacc cacatttat ggatttctct tttagtagt actaacatca tactactcti ttgaagcca tctgaagaaa ataaagaact gtacgtccat tatggagaaa gatttacti acagtctgt gaaaagacat ctitttgctc tocagatcti actaatagti tgcitctctt ctatagtat ttttaaacc alttttatg ttctacaca aagagataac tgtcagcaat tgaattattt aalagaaca aaaaacaltt tcaactgtct tgcctggcc agaagtagca cagaccccat tatattctt ttatlagaca aaacattcaaa gaagacacata tataatctct ttacaagtc taattcaga catatgcaat catatgggtg a</p>
691	195015	G Protein- Coupled Receptor GPR82	AAL26482	<p>MNNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HIYLSHLVTA P Homo NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTL SMH ASMFVSLIL sapiens SWAISRYAT LMQDSSQET TSCYEKIFYG HLKFKFRQPN FARKLCYIW GVVLGIIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLTYSVVKRH LLVIQILLIV CFLPYSIFKP IFYVVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIEL LLDKTFKKTL YNLFTKSNSA HMQSYG</p>

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	Species Name
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggcaac aacaccacat caccaccggc tccctttgag accggcgga acactactgg tatctccgac gtgacctgat gctaccaagt gatcacctct ctgctgtgg gacgtctcat ctctctcgcg gtgctgggca atgctgtcgt ggtggctgc atcgccctgg agcgctccct gcagaaacgt gccaatatc ttattggctc ttggcggtc accgacctca tgggtgtcgt gtggtgtcgt cccatggcgg cgtgtatca ggtgctcaac aagtggacac tgggccaggt aacctgcgac ctgttcatcg cctcgacgt gctgtgctgc acctcatcca tcttgacact gtgcgccatc gcgctggaca ggtactgggc catcacggac cccatcgact acgtgaacaa gaggacgccc cgcccgctg cgctcatctc gctcacttgg cttattggct tctcatctc tatcccgccc atcctgggct ggcgacccc ggaagaccgc tgggacccc agcatgcac cattagcaag gatcatggct acatatcta ttccaccttt ggagctttct acatcccgt gctgctcatg ctggttctct atggcgcat attccgagct gcggtctcc gcatccgcaa gacgtcaaa aaggtggaga agaccggagc ggaacaccgc catggagcat ctcccgccc gcagcccaag aagagtgtga atggagagtc ggggagcagg aactggagc tgggctgga gagcaagct gggggtgctc tgtgcgcaa tggcgcggtg aggcaaggtg acgatggcg cgccctggag gtgatcgagg tgcaccgagt gggcaactcc aaagagcact tgcctctgcc cagcaggtct ggtcctacc ctgtgcccc cgctctttc gagagaaaa atgagcgcaa cgccgagcg aagcgcaaga tggccctggc ccgagagagg aagacagtga agacgtggg catcatcatg gcaccttca tectctgtc gctgccccctc tctcatgtgg ctctgttct gcccttctgc gagagcagct gccacatgcc caccctgttg ggcgccataa tcaattggct gggctactcc aactctctgc ttaaccccc catttacgca tacttcaaca aggacttca aaacgcgtt aagaagatca ttaagtgtaa cttctgccgc cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVLSFGQGN NTTSPAPFE TGGNTTGISD VTVSYQVITS LLLGTLIFCA VLGNACVWAA IALERSLQNV ANYLIGSLAV TDLNVSVLVL PMAALYQVLN KWTLGQVTC LFTALDVLCC TSSILHLCAI ALDRYWAITD PIDVVKRTP RPRALISLTW LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLLLM LVYGRIFRA ARFRIRKTVK KVEKTGADTR HGASAPAPQPK KSVNGESGR NWRLGVESKA GGALCANGAV RQDDGALE VIEVHRVGNs KEHLPLPSEA GPTPCAPASF ERKNERNAEA KRKMALARER KTVKTLGIIM GTFILCWLPF FIVALVLPFC ESSCHMPTLL GAINWLGYs NSLNPVIYA YFNKDFQNAF KKIICNFCR Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggaggaaac cgggtgtctca gtgcgctcca ccgcccggcc cgggctccga gacctgggtt cctcaagcca acttatctct tgcctccctc caaactgca gcgccaagga ctacatttac caggactcca tctccctacc ctggaagta ctgctgggta tgcattggc gctcatcacc ttggccacca cgctctccaa tgcctttgtg attgccacag tgtaccggac ccggaactg cacaccccgg ctaactacct gatgcctct ctggcggtca ccgacctgct tgtgtccatc ctggtgatgc ccacagcac catgtacact gtccacggcc cctggacact gggccagggtg gtctgtgact tctggtgtgc gtggacatc actgtgtgca ctgctccat cctgcacctc tgtgtcatcg cctgggaccg ctactgggcc atcacggagc ccgtggagta ctcagctaaa aggaactcca agaggggcggc ggtcatgatc gcgtgtgtgt ggggtctctc catctctatc	A	Homo sapiens

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tcgctgccgc ccttctctg gcgtcaggct aaggccgaag aggaggtgc ggaatgcgtg
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cccgggtcca cgtctctggt gaaccaagtc aaagtgcgag ttccgcagc cctgctggaa
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aaagatgcct gctggttcca cctagccatc tttagacttc tcaatggct gggtatctc
aactccctca tcaaccccat aatctatacc atgtccaatg aggaactttta acaagcattc
cataaactga tacgttttaa gtgcacaagt tga
NP_000854.1 MEEPGAQCAP PPPAGSETWV HPANLYLIAS QNSAKDYIY QDSISLPWKV LLMMLALIT P
LATLSNAFV IATVYTRKL TPANLYLIAS LAVDLLVSI LVMPISTMYT VTGRWTLGQV
VCDFWLSSDI TCCTASILHL CVIALDRYWA ITDAVEYSK RPKRAAVMI ALWVFSISI
SLPFFFWROA KABEEVSEC VNTDHILYV YSTVGAFYFP TLLIALLYGR IYVEARSRII
KQTPNRTGKR LTRAQLITDS PGSTSSVTSI NSRVPDVPSE SGSPVYVNVQV KVRVSDALLE
KKKILMAARER KATKTLGIIL GAFIVCWLPF FIISLVMPIC KDACWFHLAI FDFFTWLGYL
NSLINPIIYT MSNEDFKQAF HKLIRFKCTS
agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca A
gtcagcagaa gtgccttccc aggagccgc caacagatcc ctgaatgcc cagaaacctc
aggagcttgg gatcccgga cctcccgga tecttccaa tgcctttgta ctcaccacca tcttactcac
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ctcggctggc tcccctctct ttttcaacca cgtgaaatc aagcttctg acagtgcctc
ggaacgcaag aggatctctg ctgctcgaga aaggaagcc actaaaatcc tgggcatcat
tctgggggccc ttatcatct ctggtctgccc cttctctgag gtgtctctg tectccccat
ctgcccggac tctgctgga tccacccggc tctcttggac tcttccatc gcttaggcta
tttaaaactc ccatcaatc caataatc cactgtgttt aatgaagat ttcggcaagc
ttttcagaaa attgtccct tccggaagc cctcatgtct tattcgatga ggtaaagaaa
NP_000855.1 MSPLNQSAEG LPQASNRSL NATTSEAWD PRTIQALKIS LAVLSVITL AFVLSNAFVL P
TTTLLTRKLH TPANLYGSL ATTDLLVSI VMISIAITI THTWNFGQIL CDWLSSDIT
CCTASILHLC VIALDRYWA TDALEYSKRR TAGHAATMIA IVNAISICIS IPPLFWROAK

NP_000854.1
Receptor

NM_000864
Receptor

NP_000855.1
Receptor

5-HT1B
Receptor

5-HT1D
Receptor

5-HT1D
Receptor

7	130	5-HT1E Receptor	NM_000865	<p> AQEEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGR IYRAARNRIIL PPSLYGKRFT TAHLITGSAG SSLCSLNSL HEGHSHSAGS PLFFNHVKIK LADSALERKR ISAARERKAT KILGIILGAF IICWLPFFV SILVLPICRDS CMWHPALFDE FTWLGYLNSL INPIIYTVFN EEFRAQFQKI VEFKAS atcgaatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcggggttcgcg A agtgagactt ctggagccag ctggacgtgc cgggttgccc agtcggcgc gcctgcacgc accgtccaca agagtctcag tcgcccaggc tggagtgcag cagcacagtc tcacctcatt gcaacctcgc cctcccgggt tcgcggttc tcgcctcag ctctcagta gctgggattg caggcactca caacctgccc cggctaattt ttgaaatttt tagtggagac gggatttcac catgttgccc atgtctgtct tgaaccccc accctggatg attgcggcgc ctgcgcctcc caaagtgtg gaattacagg cgaaccttca ctgagaagaa atgctgtggc ccttcccttt accaacagaa aatggaacac aagagaccac atagctgaac aaataaccaa cagcttctcc gtgagaacc ttcgaggcta catagttttc agccaaaggc acatcacaaa ctgtaccaca gaggccagca acagtgtaga ctgaacaag ggaacatga agatgctcat ttgcatgact ctgggtgtgca tggctataag acccaagacc atcactgaga agatgctcat ttgcatgact ctgggtgtgca tcaccacct caccagttg ctgaacttgg ctgtgatcat ggtatttggc accaccaaga agctccacca gcttgccaac tacctaattc gtctctggc cgtgacggac ctctgggtgg cagtgctcgt catgcccctg agcatcatct acattgtcat ggatcgctgc agcttgggt acttctctg tgaggtgtgg ctgagtgctg acatgacctg ctgacacctg tccatctccc acctctgtg cattgccctg gacagtgact gggccatcac caatgctatt gaatacgcca ggaagaggac ggccaagagg gcgcgctga tgatctctac cgtctggacc atctccattt tcattccat gccctctctg ttctggagaa gccacgccc cctaagccct cccctagtc agtgcacct ccagcacgac catgttatct acacatttta ctccacgctg ggtgcgtttt atatccctt gactttgata ctgattctct attaccggat ttaccacgct gccaaagacc ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agccagaatt cttttgcaa tggtaaactt acacagactt tctgtgtgct tgacttctcc acctcagacc ctaccacaga gtttgaaaag ttccatgctt ccatcaggat ccccccctt gacaatgac tagatcaccc aggaagact cagcagatct ctgacaccag ggaacggaag gcagcacgca tccctggggt gattctgggt gcattcattt tatctgtgct gccatttttc atcaaaagat tgattgtggg tctgagcatc tacaccgtgt cctcggaagt ggcgacctt ctgacgtggc tcggttatgt gaattctctg atcaacctc tgctctatc gagttttaat gaagacttta agctggcttt taaaagctc attagatgcc gagagcatc ttgactgta aaagctaaa aggcagact tttccagag cctcatgagt ggatgggggt aaggggtgca acttattaat tcttgaacat acttggttca ggagagtttg taagtatgtg tggctgtgtt tccctgtttg ttgtttgtt ttgttctgtt ttgttgagg attgtattt ggcgtgctgt tttctacctc tggctctatc tgtgatacat aattcaaat aaacattatc atcaaaaaac aaaaaaaa aaaaaaaa </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> SMAIRPKTIT EKMLICMTLV VITLTLLN LAVIMAIGTT KKLHOPANYL P ICSLAVTDLL VAVLVMPLSI IYVMDRWKL GYFLCEWLS VDMTCCTCSI LHLCTVIALDR YWAITNAIEY ARKRTAKRAA LMILTVMTIS IFISMEPLFW RSHRRLSPPP SQCTIQHDHV IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSRR HLSNRSTDSQ NSFASCKLTQ </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDFTS DPTTEFEKFH ASIRIPPFDN DLDHPGERQQ ISSSTRERKAA RILGLILGAF ILSWLPFFIK ELIVGLSIYT VSSEVADFLT WLGYNWSLIN PLYTSENED FKLAFFKKLIR CREHT</p> <p>atggatttct taaattcattc tgaatcaaac ttgacctcag aggaactgtt aaacagaatg A ccatccaaaa ttctgtgtgc cctcaactctg tctgggctgg cactgatgac aacaactatc aaatcccttg tgaatcgtgc aattatttg acccggaagc tgcaccatcc agccaattat ttaatttggt ccttgctgag cagagatttt cctgtggtg tctgtgtgat gcccttcagc atgtgtgata ttgtgagaga gagctggatt atgggggcaag tggctctgtga catttggtg agtgttgaca ttacctgctg cactgtctcc atcttgcatc tctcagctat agctttggat cggtatcgag caatcacaga tgcgtgtgag tatgccagga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctatcc tggaggcacc aaggaactag cagagatgat gaatgcacga tcaagcacga ccacattggt tccaccattt actcaacatt tggagcttcc tacatccccc tggcattgat ttgatcctt tactacaaaa tatatagagc agcaaaagaca ttataccaca agagacaagc aagtaggatt gcaaggagg agtgaatgg ccaagtcctt ttggagagtg gtgagaaaag cactaaatca gtttccacat cctatgtact agaaaagtct ttatctgacc catcaacaga cttgataaa attcatagca cagtgaaga tctcaggtct gaattcaagc atgagaaatc ttggagaagg caaaagatct caggtacaag agaacggaaa cagccacta cctgggatt aatctgggt gcatttgtaa tatgtggct tcttttttt gtaaaagaat tagttgttaa tgcctgtgac aaatgtaaaa ttctggaaga aatgtccaat tttttggcat ggcttgggta tctcaattcc cttataaatc cactgattta cacaatctt aatgaagact tcaagaaagc attccaaaag cttgtgcgat gtcgatgta g</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>MDFLNSSDQN LTSEELNRM PSKIIVSLTL SGLALMTTI NSIVIAAIIV TRKLHPANY P LICSIAVTFD LVAIVMPFS IVYIVRESWI MGQVVCDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKTPKHA GIMITIVWII SVFISMPPLF WRHQGTSRDD ECILKHDHIV STIYSTFGAF YIPLALIL YKIYRAKT LYHKRQASRI AKEEVNGQVL LESEKSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSLSR EFKEKSWRR QKISGTREK AATIGLILG AFVICWLPFF VKELVNVCD KCKISEMSN FLAWGLYNS LINLIYTIF NEDEKKAFOK LVRRC</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621	<p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagtgat ggtgagcaga aactataacc tgttagtcct tctacacctc atctgtatca agttctgggt tagacatgga tattctttgt gaagaaaata cttctttgag ctcaactacg aactccctaa tgcaattaaa tgaagacacc aggccttaca gtaatgactt taactctgga gaagctaaaca cttctgatgc atttaactgg acagtcgact ctgaaaaatcg aaccacctt tctgtgaag ggtgcctctc accgtgtgt ctcctctac tctatctcca ggaaaaaac tggctgtctt tactgacagc cgtagtattt atttaacta ttgctggaaa catactcgtc atcatggcag tgcctcaga gaaaaagctg cagaatgcca ccaactattt cctgatgtca cttgcatag ctgatagct ctgggtttc cttgcatgc ccgtgtccat gttaaccatc ctgtatgggt accgtggcc tctgcgagc aagctttgtg cagctgtgat ttacctggac gtgctcttct ccacggctc catcatgcc tctgcgcca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagccgc ttcactcca gaactaaggc</p>	Homo sapiens

12	NP_000612.1	5-HT2A Receptor	MDILCEENTS LSSTNSLMQ LNDTRLYSN DENSGEANTS DAFNWTVDSE NRTNLSCEGC P	Homo sapiens
			LSPSCLSLH LQKNWSALL TAVVILITIA GNILVIMAVS LEKKLQNATN YFLMSLAID	
			atttctgaaa atcattgtctg ttgggaccat atcagtaggt atatccatgc caataccagt ctttgggcta caggacgatt cgaaggtctt taaggagggt agttgcttac tcgccgatga taactttgtc ctgateggct cttttgtgtc atttttcatt cccctaacca tcaatgggtgat cactacttt ctaactatca agtcactcca gaaagaagct actttgtgtg taagtgatct tggcacacgg gccaaattag tctctttcag cttctctcct cagagttctt tgtcttcaga aaagctcttc cagcgggtcga tccataggga gccagggtcc tacacaggca ggaggactat gcagtccatc agcaatgagc aaaaggcatg caaggtgtcg ggcacgtctc tcttcctgtt tgtgtgatg tgggtgacct tcttcacac aacatcatg gccgtcatct gcaagagtc ctgcaatgag gatgtcattg gggccctgct caatgtgttt gtttggatcg gttatctctc ttcagcagtc aaccactag tctacacact gtccaacaag acctataggt cagccttttc acggtatatt cagtgtcagt acaaggaaa caaaaacca ttgcagttaa ttttagtgaa cacaataccg gcttggcctt acaagtctag ccaactcaa atgggacaaa aaaagaattc aaagcaagat gccaaagaca cagataatga ctgctcaatg gttgctctag gaaagcagca ttctgaagag gcttctaaag acaatagcga cggagtgaat gaaaagggtga gctgtgtgtg ataggctagt tggcgtggca actgtggaag gcacactgag caagttttca cctatctgga aaaaaaaat atgagatttg aaaaaattag acaagttctg tggaaaccaac gatcatatct gtatgcctca ttttattctg tcaatgaaa gcgggttca atgctacaaa atgtgtgctt ggaaaatgtt ctgacagcat ttacgtgtg agctttctga tacttattha taacattgta aatgatatgt ctttaaaaatg attcactttt attgtataat tatgaagccc taagtaaatc taaattaact tctattttca agtggaacc ttgtgctat gctgttcatt gatgacatgg gattgagttg gttacctatt gcgtaataa aaaaatagcta taaatagta aaattttatt gaatataatg gctctttaa aattatctt aaaaacttact atggtatata ttttgaagg agaaaaaaa aaagccacta aggtcaggtg tataaaatct gtattgctaa gataattaaa tgaaataact gacaacattt ttcatagata ccattttgaa atattcaca ggttgcgtggc atttgcgtga ttccaagtta attctcagaa gtgaaaaaga cttcaaatgt tattcaataa ctattgtctg tttctcttct acttctgtg ctttactctg aatttccagt gtggtcttgt ttaatatattg ttctcttagg taaactagca aaagatgat ttaacattac caaatgcctt tctagcaatt gcttctctaa aacagcacta tcgaggtatt tggtaacttg ctgtgaaatg actgcatcat gcatgcactc ttttgagcag taaatgtata ttgatgtaac tgtgtcagga ttgaggatga actcaggttt ccggctactg acagtggtag agtccttaga catctctgta aaaagcaggt gactttccta tgacactcat caggtaaact gatgctttca gatccatcgg ttatactat ttattaaaac cattctgctt ggttccaca tcatctattg agtgatcatt tatgtgtgaa gaaaatttct agatatgaga aatataaaa taattaaaac aaaatccttg ccttcaaacg aaatggctcg gccaggcacg gaggtcctg catgtaatcc tagcactttg ggaggctgag atgggaggt cacttgaggc caagagtgtg agaccaacct gggtaacaaa gtgagacctc cctgtctcta caaaaaaat caaaaaatta tctgacctt gtggcacaca actgtggtcc cagctacagg ggaggctgag agccaagat cacttgagcc cagaagctca aggctgcagt gagccaagt cacaccactg ccatttctc ctgggcaaca gagtgaagcc ctatcacccc gaattc	

13	133	5-HT2B Receptor	NM_000867	<p>MLLGLMPV SMLTILGYR WPLPSKLCV WYLDVLFST ASIMHLCAIS LDYVAIQNP IHSRENSRT KAFKIIAV TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNFVLIGSF VSFFIPLTIM VITYFLTIS LQKEATLCVS DLGTRAKLAS FSFLPQSSLS SEKLQFORSIH REPGSYTGRR TMSISNEQK ACKVLGIVFF LFVVMWCPFF ITNIMAVICK ESCNEDVIGA LLNVEFWIGY LSSAVNPLVY TLFNKTYRSA FSRYIQCYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTTD NDCSMVALGK QHSEASEKDN SDGVNEKVC V</p> <p>tactaaccat gctgaccat gttcggaacg ggattgaatc acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaag cacaattcct gagcacattt tgcagagcac ctttgtttcac gttatctctt ctaactggtc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaat taaactgcac tgggcagctc tctgatact catggtgata ataccacaa ttggtggaaa tacccttgtt attctggctg tttcactgga gaagaagctg cagtatgcta ctaattactt tctaattgctc ttggcgggtg ctgatttgct ggttggttg gttgtgatgc caattgacct ctggacaata atggttgagg ctatgtggcc ctccacctt gttctatgct ctgctgtggt atttcttgac gttctctttt caaccgcac catcatgcat ctctgtgcca ttccagtggg tegtacata gocatcaaaa agcaaatcca ggccaatcaa tataactcac gggctacagc attcatcaag attacagtgg tgtggttaat ttcaataggc attgccattc cagtcctcat taaagggata gagactgatg tggacaaccc aaacaatatc acttgtgtgc tgacaaaagg acgttttggtc gatttcacgc tcttggctc actggctgcc tcttccacac ctcttgcaat tatgattgct accacttctc tcaactatca tgctttacag aagaaggctt acttagtcaa aacaagcca cctcaacgcc taacatggtt gactgtgtct acagtttctc aaagggtatg aacaccttgc tctgcacgg aaaagggtggc aatgctggat ggttctcgaa aggacaaggc tctgcccac tcaagtgatg aacacttat gcgaagaaca tccacaattg ggaataagtc agtgcagacc atttccaaac aacagagagc ctcaaggctc ctagggtatg tgttttctt ctgttgctt atgtgtgtgc ccttctttat tacaatatata acttagttt tatgtgattc ctgtaacca aactactctc aatgtctct ggagatatatt gtgtggatag gctatgtttc ctcaaggatg aactctttgg tctacacct cttcaataag acatttggg atgcatttgg ccgatatatc acctgcaatt accggggccac aaagtcagta aaaactctca gaaacgctc cagtaagatc tacttccgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaaat gggattaaac ctggcatgta ccagagtcca atgaggctcc gaagtcaac cattcagctt tcatcaatca tttactaga tacgcttctc ctactgaaa atgaaggatg caaactgaa gagcaagtta gttatgtata gcagaactgg cagtgatcat caaataat gatgagtaag atgatgaatg agatgtaaat gtgcccagaa tataatatat aaagaatttt atgtcatata tcaaatcatc tctttaacct aagatgtaag tattaagaat atctaatttt cctaatttgg acaagattat tccatgagga aaataatttt atatagctac aaatgaaaac aatccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataaat ttcaggctttt aaaaaaaaa</p>	Homo sapiens
14	133	5-HT2B Receptor	NP_000858.1	<p>MALSYRVSEL QSTIPEHILQ STFHVHSSN WSGLTQESIP EEMKQIVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKLIQYATN YFLMSIADV LLVGLFVMPI ALTIMFEAM WPLPLVLCPA WLFVDVLFST ASIMHLCAIS VDRYIAKKP IQANQYNSRA TAFIKITVWV LISIGIAIPV PIKGIETDND NPNNITCVLT KERFGDFMLF GSLAAFFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFOR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens

15	134	5-HT2C Receptor	nm_000868	V	134	5-HT2C Receptor	nm_000868	15
LMRRSTIGK KSVQTSNEQ RASKVLGIV FFLMLMCPF FTINITVL DSCNQTTIOM	accgcgcga ggtaggcgct ctggtgcttg cggaggacgc ttcttctc agatgcacgc A	atcttccga tactgccttt ggagggcta gatgctagc ctggcgtct ccattggcct sapiens			gccttgccc ttactgccc attgatatg aactctctt ctgctgtac atcgctgtcg	tcggagtgt cgcgatcgtc gtggcgtcg tbtgatggcc ttgctccgt tagagtatgt		
LLEIFWIGY VSSGVNPLVY TLFNKTRDA FGRYITCNR ATKSVKTLRK RSSKIYFRNP	tagttagtta ggggccaacg aagaagaaag aagacgcgt tagtgcagag atgctggagg	tggtcagtta ctaagctaga gtaagatagc ggagggataa gagccaaacc tagccgggg			gcccacggt acccaaggga ggtcgactcg cggcgcttc ctatcgccg agctccctc	cattctctc cctccgcga ggcgcgaggt tgcgcgctg ccgtttctc tctagctgcc		
MAENSKFFKK HGIRNGINPA MYQSPMLRS STIQSSIIL LDTLLLTENE GDRTEEQVSY	accgactgcc gggggctccg ctggcgatt gcagcgagt cggcttctc agctcagcgc	gagagcactt ataacatagg ccaactgacg ccatcttca aaaaacta aagatgata			tgatgaacct agcctgttaa ttctgtcttc tcaatttaa actttggtt cttaaagactg	aagcaatcat ggtgaacctg aggaatgcgg tgcattcatt ccttgtgac ctaattggcc		
	tattggtttg gcaatgtgat attctgtga gcccgtagc agctatagta actgacattt	tcaatacct cgatggtgga gccttcaat tcccagacg ggtacaaaac tggccagcac			tttcaatcgt catcataata atcatgaca taggtggcaa catccttgt atcatggcag	taagcatgga aaagaaactg cacaatgcca ccaattactt cttaatgtcc ctgcccattg		
	ctgatatgct agtgggacta ctgtcatgc cctgtctct cctggcaatc ctttatgatt	atgtctggcc actacctaga tatttggcc cgtctggat ttcttagat gttttattt			caacagcgt catcatgcac ctctgcgcta tatcgtctga tcggtatgta gcaatacgta	atcttattga gcatagcgt ttcaattcg gcataaggc catcatgaag attgctattg		
	tttgggcaat ttctataggt gtatcagttc ctatcctgt gattggactg agggacgaag	aaaagggtt cgtgaacaac acgacgtcg tgcacaaga ccaaatctt gttctattg			ggctctctgt agctttctc ataccgtga cgattatggt gattacgtat tgcctgacca	tctacgttct gcgcgacaa gctttgatgt tactgcaagg ccacaccgag gaaccgcctg		
	gactaagtct ccaagaccag aacgcctgca agtgcgtga agaggaatac gagaactctg	caaaccttaa ccaagaccag aacgcctgca agtgcgtga gaaggaatac gagaactctg			gcaccatgca ggtatcaac aatgaaagaa agcttcgaa agtccctggg attgtttct	ttgtgtttct gatcatgttg tgccatttt tcattacca tattctgtct gttctttgtg		
	agaagtccct taacaaaag ctcatggaaa agctctgaa tgtgtttgt tggattggct	atgtttgttc aggaatcaat cctctggtg tactctgtt caacaaatt taccgaagg			cattctccaa ctatttgct tgcaattata aggtagagaa aaagcctct gtcaggcaga	ttccaagagt tgcgcacct gcttctgtg gtaggttaac taatgttaac attatcggc		
	ataccaatga accggtgatc gagaaagcca gtgacaatga gccgttata agatgcagg	ttgagaattt agagtacc aataatccct ccagtgtgt tagcgaagg attagcagtg			tgtgagaaag aacagcacg tcttttcta cggtagaag tacatatga ggaatttt	cttctttaat ttltctgttg gtcttaacta atgtaaatat tgctgtctga aaaaagtgtt		

ttacatatag ctttgcaacc ttgtacttta caatcatgcc tacattagtg agatttaggg
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tattatatat gtatatctgt gtaagacacg tgaacacagc tgccttatat tattttctgt
aattctctc ctttgtcaaa tgggtatttt ttggaatggt tgcgaagtgt tgtcttattc

16	134	5-HT2C Receptor	NP_000859.1	ctaaattcctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaatt tattaaatgt tgaaaaaaa aaaaaaaaaa aaaaa MNLNRNAVHS FLVHLIGLLV WQCDISVSPV AAIVTDIENT SDGGRFKFPD GVQWNPALSI P VIIIMTIGG NILVIMAVSM EKHLNATNY DRYVAIRNPI EHSRFSRTRK AIMKIAIWA PLPRYLCPVW ISLDVLFSTA SIMHLCAISL DMFVILNPI EHSRFSRTRK AIMKIAIWA ISIGSVPIV VIGLRDEKV FVNNTTCVLN DNFVILNPI EHSRFSRTRK AIMKIAIWA LRRQALMLJH GHTEPPGLS LDFLKCKRN TAEENSANP NQDNARRRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPEFIT NILSVLCEKS CNQKIMEKLL NVFVWIGYVC SGINPIVYTL FNKIYRRAFS NYLRNRYKVE KKPPVRQIPR VAATALS GRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPWNPSV VSEISSV	Homo sapiens
17	136	5-HT4 Receptor	NM_000870	cggtgcttat ttctgtaat ggacaaactt gatgctaagt tgagttctga ggagggtttc A gggtcagtggt agaaggtggt gctgctcagc ttctctcga cgggtatcct gatggccatc ttggggaacc tgctggtgat ggtgctgtg tgctgggaca ggagctcag gaaaaataaa acaaattatt tcattgtatc ttctgctttt gctgctcga cgggaggtt gttttgtctt ccctttggtg ccattgagct ggttcaagac atctggattt atggggaggt gttttgtctt gttcggacat ctctggacgt cctgctcaca cgggacatga tttttcacct gtgctgcatt tcctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc ctctgcgca tcgcattaat gctgggagc tgctgggtga tccccacgtt tatttctttt ctccctataa tgcaaggttg gaataacatt ggcataatga atttgataga aaagaggaaag ttcaaccaga acttaactc tagtactgt gcttctcga tgggtctgga ctattaccgc acctgctctg tgggtgctt ctacatccca ttctctcga tgggtctgga ctattaccgc atctatgtca cagtaagga gcatgcccac cagcatagca ctcacgcat gaggacagag tcctccgaga gcaggcctca gtcggcagac cagcatagca ctcacgcat gaggacagag accaagcag ccaagaccct gtgcatcctc atgggttctg tctgctcctg ctgggcacca ttctttgtca ccaatattgt ggtatccttc atagactaca ctgctcctgg gcaggtgtgg actgctttcc tctggctcgg ctatatcaat tccgggttga accttttct ctacgccttc tgaataagt cttttagacg tgccttctc atcatcctct gctgtgatga tgagcgctac cgagacatt ccattctggg ccagactgtc cctgttcaa ccacaacct taatggatcc acacatgtac taaggatgc agtgaggtgt ggtggccagt gggagagtca gtgtcacccg ccagcaactt ctcctttggt ggtgctcag cccagtgaca cttaggcccc tgggacaaatg accagaaga cagccatgcc tcgaaagag ggcaggtcc taagctgctg cttgtgcgag actgcacccg gcattctctt cactgagggc ttcccgctcg ccagtgacag aaccgggtgc tcgctggg	Homo sapiens
18	136	5-HT4 Receptor	NP_000861.1	MDKLDANVSS EEGFSVEKV VLTFLSTVI LMAILGNLLV MVAVCWDRQL RKIKTNYFIV P SLAFADLLVS VLWPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTASIFH LCCISLDTRY AICQPLVYR NRTPLRIAL MLGCGWVPT FISTLPIMOG WNNIGIIDLI EKPKNQNSN STYCVFMVWK PYAITCSWA FYIPFLMLV AYRIYVYVAK EHAHQIQMLQ RAGASSESRP QADQSHSTR MRTEPKAART LCIMGCFCL CWAPFFVTNI VDPFIDYTVF GQVWTAFLWL GYNSGLNPF LYAFLNKSF RFLIILCCD DERYRRPSIL GQTVPCSTTT INGSTHVLRL AVECGGQWES QCHPPATSPV VAAQPSDT	Homo sapiens
19	138	5-HT6	NM_000871	cccagagagcg cccattcacc cccctcacc accctcccg gttccactt ccccgactc A	Homo

[illegible]

21	139	5-HT7 Receptor	NM_000872	coatgggag cggcacacgg cggcgcgatg atggacgtta acagcagcgg ccgcccggac A ctctacgggc acctccgctc ttctcttctg ccagaaagtgg ggcgcgggct gcccgaactg agccccagc gtggcgccga cccggtcgcg ggctcctggg cgccgcacct gctgagcgag gtgacagcca gcccgcgcc cactgggac ggcgccccgg acaatgcctc cggctgtggg gaacagatca actacggcag agtcagagaa gtgtgtgact gctccatcct gacgtctc acgctgctga cgatcgcggg caactgcctg gtggtgatct ccgtgtgctt cgtcaagaag ctccgccagc cctccaacta cctgacgtg tccctggcgc tggccgacct ctccgtggct gtggcggtca tgccttcgt cagcgtcacc gacctcatg ggggcaagtg gatctttgga cactttttct gtaatgtctt catcgccatg gacgtcatgt gctgacggc ctcgacatg acctgtgcg tgatcagcat tgacaggtag catggcgaag atgattctct ccgtctggct tctctcggc gtgagggcaga atgggaaatg catggcgaag gtgtgaaag tggcgaacc ttctgagact cctcaagcat tccatcacct taactccact ctttgatgg gctcagaatg taaatgatga taagtgtgc ttgatcagcc aggactttgg ctatacagatt tactctaccg cagtggcatt ttatatcccc atgtccgtca tgcctttcat gtactaccag atttacaagg ctgccaggaa gagtgtgc aaacacaaat ttcttggtt cctcgagtg gagccagaca ggtcatcgc cctgaatggc atagtgaagc tccagaagga ggtggaagag tgtgcaaac ttctgagact cctcaagcat gaaaggaaaa acatctccat ctttaagcga gaacagaaag cagccaccac cctggggatc atcgtcgggg cctttaccgt gtgctggctg ccatcttctc tctctcgc agccagaccc ttcatctgtg gcacttctg cagctgcac ccaattgtgg tggagaggac atttctgtg ctaggctatg caaactctct cattaacct ttatatatg ccttcttcaa cggggacctg aggaccacct atcgcagcct gctccagtc cagtagcga atatacaacg gaagctctca gctgcaggca tgcataaagc cctgaagcct gctgagaggc cagagagacc tgagtttgtg ctacaaaaatg ctgactactg tagaaaaaaa ggtcatgatt catgattgaa agcagaacaa tggag	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	MDVNSSGRP DLXHLRSFL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPAPTW P DAPPDNASGC GEQINYGRVE KVVIGSILTL ITLLTIAGNC LVVISVCFVK KLRQPSNYLI VSLADLSV AVAVMPFVSU TDLIGGKWIF GHFPCNVFIA MDVMCCTASI MTLCVISIDR YLGITRPLTY PVRONGKMA KMILSWLLS ASITLPLPLF WAQNVNDDKV CLISQDFGYT IYSTAVAFYI PMSVLMFYI QIYKAARKSA AKHFPFGR VERDSVIALN GIVKLQKEVE ECANLSRLK HERKNISIFK REQKAATTIG IIVGAFTVCW LPFILLSTAR PFICGTSCSC IPLMVERTEL WLGYANSLIN PFIYAFENRD LRITYRSLIQ CQYRNINRKL SAAGWHEALK LAERPERPEF VLQWADYCRK KGHDS atgagtgtca gaagtgtgaa ggtgtcctgt tctgaatccc agagcctcct ctccctctgt A gaggtcggca ggtgaggaag ggtttaacct cactggaagg aatccctgga gctagcggct gctgaaggcg tcgaggtgtg ggggcaactg gacagaacag tcaggcagcc gggagctctg ccagctttgg tgacctggg cgggctggg agcgtgcg cggagaccgg aggactatga gctgccgcg gttgtccaga gccacgcca gccctacgcg cgcggccccg agctctgttc cctggaactt tgggcaactg cctctggacc cctgcggcc agcaggcagg atggtgcttg ctcgtgccc cttggtgccc gtctgctgat gtcctcaggt tgtgcccgcc atgcccctt ccatctcagc ttccagggcc gctacatcg gctcagcgt gctcagcc ctggctctctg tgccccggaa cgtgctggtg atctggggcg tgaaggtgaa ccaggcgcgtg cgggatgcca	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674		Homo sapiens

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 aataaaaaac tgtgaacctt

Homo

P

LAVADVAVGA

RDATFCFIVS

IWAQVKNQAL

LVSFPGNVLV

AYIGIEVLIA

MPPSISAFQA

NP_000665.1

Adenosine A1

24 272

Receptor	Adenosine A2a Receptor	273	NM_000675	225	sapiens
LVIPLAILIN	IGPQYFHTC	IMVACPVLIL	TQSSILALLA	IAVDRLRVK	IPURYKVVVT
PRRAVAIAG	CWILSFVVL	TPMFGNNLS	AVERAWAANG	SMGEPVIKCE	FEKVISMEMY
VYENFFVWL	PPLIMVLIY	LEVFLIRKQ	LNKKVSASSG	DPQKYGKEL	KIAKSLALIL
FLFALSWLPL	HILNCITLFC	PSCHKPSILT	YIAIFLTHGN	SAMNPIVYAF	RIQKFRVTEFL
KIWNDRHCQ	PAPPIDEDLP	EEPRDD			
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gggtctgccc	tgggtcctgc	tgctaacctg	gcaccagagc	ctctgcccgg	ggagcctcag
gcagtcctct	cctgctgtca	cagctgccat	ccacttctca	gtccccagggc	catctttggg

26	Adenosine A2a Receptor	NP_000666.2	<p> aagtgacaaag ctggggatcaa ggataggagag ttgtaacaga gcagtgccag agcatggggc caggccccag gggagaggtt ggggctggca gggcactggc atgtgctgag tagcgcacag ctaccacagt agaggccttg tctaaactgc tttccttcta aagggaatgt ttttttctga gataaaataa aaacagagcca catcgtgttt taagcttgtc caaatgaaaa aaaaaaaa aaa </p>	Homo sapiens
27	Adenosine A2b Receptor	NM_000676	<p> TVELIAIIVLA ILGNVLVCWA VMNSNLQNV TNYFVVSLLA ADIAVGLAI P PFAITISTGF CAACHGCLFI ACFLVLITQS SIFSLIAIAI DRYIAIRIPL RYNGLVITGR AKGIIAICWV LSPALGLTPM LGWNNGQPK EGKNSQGC EGQVACLFED VVPMNMYVF NFFACVLVPL LIMLGVLRI FLAARRQLKQ MESQPLPGER ARSTLQKEVH AAKSLAIIVG LFALCWLP LH IINCFTFFCP DCSHAPLWLM YLAIVLSHTN SVNPFYIAY RIREFRQTFR KIIRSHVLRO QEPFKAAGTS ARVLAHGS D GEQVSLRLNG HPFGVWANGS APHPERRPNG YALGLVSGGS AQESQNTGL PDVELLSHEL KGVCEPPGL DDPLAQDGAG VS gggcaaatgtg ttagttatcc gccgccacca agacgcggca cggcgccctgg accggagggg A cccgcgcgg gcgcgaactt tgggctcggg cgagtgggtg gtgctccgc cagcccagaga cggggcggcg cgggggcca tgggtgccgc ctcttgccg cggggggccc cgaccctgg gtcccggcca ccaggccccc agccccgagg ctcaagaagc gcaggcggag gcgcggtccc ggcgctatgg ccatgccccg cgggtctcac ggggctgcc ctcgccccgc gcgccttcgg tagggggcgc cgggggcca atcgcccgcc ccatgctgct ggagacacag gacgcgtgt acgtggcgct gaggctggc atcgccgcgc ttctgggtgc gggcaacgtg ctgggtgtgcg cgcggtggg gcggcggaac actctgcaga gccccacca ctacttctg gtgtccctgg ctggggccga cgtggccgtg gggctcttgc ccatccctt tgcctaccc atcagcctgg gctctgcac tgacttctac ggtgcctct tctgcctg cttcgtgtg gtgtcacgc agagctccat cttcagcctt ctggccgtgg cagtcgacag atacctggcc atctgtgtcc cgctcaggta taaaagtgtg gtcacgggga ccgagcaag aggggtcatt gctgtccctc gggctcttgc ctttggcatc ggattgactc cattctctgg gtggaacagt aaagacagt ccaccaaaa ctgcacagaa cctgggatg gaaccacgaa tgaagctgc tgccttgtga agtgtctctt tgagaatgtg gtccccatga gctacatggt atatttcaat tcttttgggt gtgttctgcc cccactgctt ataatgctgg tgatctacat taagatcttc ctggtggcct gcaggcagct tcagcgact gactgatgg accactcag gaccacctc cagcgggaga tccatgcagc caagtcactg gccatgattg tgggatttt tgcctgtgc tggttacctg tgcctgctgt taactgtgtc actctttcc agccagctca gggtaaaaaat aagcccaagt gggcaatgaa tatggccatt cttctgtcac atgccaattc agtgtcaat cccattgtct atgcttaccg gaaccgagac ttcogctaca atttccaaa aattatctcc aggtatcttc tctgccaagc agatgtcaag agtgggaatg gtcaggctgg ggtacagcct gctctcgttg tgggctatg atctaggctc tcgctcttc caggagaaga tacaatcca caagaaaaa agaggacacg gctgggtttc atgtgaaag atagctacac ctcaacagga attgactgc ctctcttgag cacttccctg gactaccac gtatctagct aatatgtatg tgtcagtagt aggcctcaag gatgacaaa tatatttatg atctattcag ctgcttttac tgtgtggatt atgccaacag cttgaatgga ttctaacaga ctcttttgtt tttaaaagtc tgccttgtt atgggtggaaa attactgaaa ctatttact gtgaacaggt gtgaactatt ataatgcaaa tactttttta cttagaggca atgaaaaaat aaagtgtgac tgtactaaaa atg </p>	Homo sapiens

28	Adenosine A2b Receptor	NP_000667.1	274	<p>MLETQDALY VALELVIAAL SVAGNVLVCA AVGTANTIQT PTNYFLVSLA AADVAVGLFA P</p> <p>IPFAITISLG ECTDFYGCLE LACFVLVLTQ SSIFSLLAVA VDRYLAICVP LRYKSLVTCT</p> <p>RARGVIAVLW VLAFIGIGLTP FLGWSKDSA TNNCTEPWDG TTNESCCLVK CLFENVVPM</p> <p>YMYFNFFGC VLPPLLLIMLV IYKIFLVAC RQLQRTLEMD HSRTTLQREI HAAKSLAMIV</p> <p>GIFALCWLPV HAVNCVTLFQ PAQGNKPKW ANMAILLSH ANSVNPIVY AYNRDRFRT</p> <p>FHKIISRYLL CQADVKSNG QAGVQPALGV GL</p>	Homo sapiens
29	Adenosine A3 Receptor	NM_000677	275	<p>atctttgctg caaaggctgg gtagcgctgg tgcacagcaa agcgtcaact cgtgcaagaa A</p> <p>cttagcagga atagttctgg ctaagggttag gaggtgcca ccaaagtctc tttttgttc</p> <p>ctctgcttct cccgtttgcc tctttatcat gagatctttt tgctaagctg gcagaaagat</p> <p>tgcatagtea gtgcttccag ctctgctccc acctgacctc gcactgtcct ctggtccctg</p> <p>aatgaatgaa ctctgatacc caatcttgtc tcgagccttc tctatgccac tcatggctcc</p> <p>tcttctgctc tttccatctt tttgctgaga gttctgagct ctgtacttcc tcttgcccc</p> <p>tctcaacttc tgaacacccc ctgaagaggg ttgcttatct tgatggaact caaaagcca</p> <p>aaaagctgca ggcagaggcg ttgaggacat ctgtttgggg aactaagagc agcagcactt</p> <p>tcagattcag tccatataga gctgtcctac agcattctgg aaacttgagg atgtgcggtg</p> <p>cataaaaggg ctggaagtga cccacctgtg atgagccctt tctaaggaga aggtttcca</p> <p>agagatcacc ccaccagaaa aggttaggaa tgagcaagtt gggaatttta gactgtcact</p> <p>gcacatggac ctctgggaag acgtctggcg agagctaggc ccactggccc tacagacgga</p> <p>tcttgctggc tcaactgtgc ctgtggaggt tccccggga aggcaagatg cccaacaaca</p> <p>gcactgctct gtcaattggc aatgttacct acatcaccat ggaaattttc attggactct</p> <p>ggcccatagt gggcaacgtg ctgtgtcatct gctgtgtcaa gctgaacccc agctgcaga</p> <p>ccaccacctt ctatttctat gtctctctag ccttggtgta cattgctgtt ggggtgctgg</p> <p>tcatgccttt ggccattggt gtcagcctgg gcatcacaat ccacttctac agctgcctt</p> <p>ttatgacttg cctactgctt atctttaccc acgcctccat catgtccttg ctggccatcg</p> <p>ctgtggaccg atacttgcg gtaagctta ccgtcagata caagagggtc accactaca</p> <p>gaagaatatg gctggccctg ggctttgtct ggctgtgtg attcctgggtg gattgaccc</p> <p>ccatgtttgg ctggaacatg aaactgacct cagagtacca cagaaatgtc accttccctt</p> <p>catgccaatt tgtttccgtc atgagaatgg actacatggt atacttcagc tctctcacct</p> <p>ggattttcat ccccttggtt gtcattgtgg ccatctatct tgacatcttt tacatcattc</p> <p>ggaacaaaact cagctgaaac ttatctaact ccaaaagagc aggtgcattt tatggacggg</p> <p>agttcaagac ggctaaagtc ttgtttctgg tcttttctt gtttgccttg tcatggctgc</p> <p>ctttatctat catcaactgc atcatctact ttaatgggtg gtaaccacag ctgtgtgctgt</p> <p>acatgggcat cctgctgtcc catgccaaact tgatcctcaa agcctgtgtg gtctgccatc</p> <p>aaataaagaa gttcaaggaa acctaccttt tgaatctgaga agatattctg atcagagatg</p> <p>cctctgattc ttggacacac agcattgaga tcaacaaaac cttagaggcc tgtatgcctg</p> <p>actctgtctc attgaccttc agattccccca tccactgagg tgggagcacc tccagtgtc</p> <p>ggccaaggga tttttacatc ctgtgattact tcttctctcc cttcattttt cctttgtcct</p> <p>cccaattata tctccccccac tccactactc tcttctctca cttcattttt cttttgtcct</p> <p>ttctctctaa ttcaagtgtt tggaggcctg acctggggac aactattat tgatatatt</p> <p>gtctgttttc cttcttccca atagaagaat aagtcatgga gcctgaaggg tgcctagtgtg</p> <p>acttactgac aaaaggtctc agttgggctg aactgtgtg tgggtggtgac tcaatttccat</p>	Homo sapiens

30	275	Adenosine A3 NP_000668.1 Receptor	gccaattgtg aattgagcag agaacctgct ctccgaggat gcttagaaga tgttggggaac agaagaaata aactgagttt aagggggact taaactgctg aattcacctg tggatgtttt tgagtaataa aaagctaata g MPNNSTALS ANVTYITMEI FIGLCAIVGN VLVICVVKLN PSLQTTTFYF IVSLALADIA P VGVLMPLAI VVSLGITIH F YSCLFMTCLL LIFTHASIMS LLAIAVDRL RVKLTVRYKR VTHRRWLIA LGLCWIVSFL VGLTPMEGN MLITSEYHRN VTFLSCQFVS VMRMDYMYF SFLTWIFIP L VMCAIYLDI FYIIRNKLSL NLSNSETGA FYGREFTAK SLFLVLELFA LSWLPLSIIN CIIYFNGEVP QLVLYMGILL SHANSMMNPI VYAYKIKKFK ETYLLILKAC VVCHPSDSLD TSIEKNSE	Homo sapiens
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	atgaagcaca ttatcaactc gtagaaaac atcaacaaca cagcaagaaa taattccgac A tgtctctgtg tgggtttgcc ggaggagata tttttcacaa ttccattgt tggagtgttg gagaatctga tggctctgtc ggtgtgttc aagaataaga atctccaggc acccatgtac tttttcattc gtagcttggc catatctgat atgctgggca gctatatata gatcttgaa aatatcctga tcatattgag aaacatggc tatctcaagc cagctggcag ttttgaacc acagccgatg acatcatcga ctccctgtt gtccctctcc tgcctggctc catcttcagc ctgtctgtga ttgctgcgga ccgtacatc accatcttcc agccactgag gtaccacagc atcgtgacca tgcgcgcgac ttggtgtgtg cttacgggtca tctggacgtt ctgcacggg ctgggcatca ccattgtgat cttctcccat catgtgccc cagtgtacac cttcacgtc ctgttccccg tgaagtgtgt cttcatcctg tgcctctatg tgcacatgtt cctgctggt cgatccacca ccaggaaagt cttcacctc cccagagcca acatgaagg ggccatcaca ctgaccatcc tgcctgggt cttcatctc tgcctggccc ctttgtgtc tcatgtcctc ttgatgacat tctgcccag taacctac tggcctgtc acatgtctc cttccagggtg aacggcatgt tgaatcgtg caatgcctc atgacccct tcatatatgc cttccggagc ccagagctca gggacgcatt caaaaagatg atctctgca gcaagtactg gtag MKHIINSYEN INNTARNNSD CPRVVLPEEI FTTISIVGL ENLIVLLAVF KNKNLQAPMY P FFICSLAISD MGLSLYKILE NILILRMNG YLKPGRSFET TADDIIDSIF VLSLLGSIFS LSVIAADRYI TIFHALRYHS IVTMRRTWV LTVIWTFTG TGITWVIFSH HVPVTITFTS LFPLMLVFI L CLYVHMLLA RSHTRKISTL PRANMKGAIT LTLILGVFIF CWAPFVLHVL LMTFCPSNPY CACVMSLFQV NGMLIMCNAV IDPFIYAFRS PELRDAFKKM IFCSRYW	Homo sapiens
33	376	Alpha 1d-adrenoceptor	tcctgcggc cgctggttct gtgcccccg cccggcccacc gacggccgag cgttgagatg A actttccgag atctcatgag cgtcagttc gagggacccc gccggacag cagcgaggg ggctccagc gggcgccgag cggggggcagc ggggggggag cggcccccctc ggaggggccc gcggtgggag gcgtgccgag gggcgccgag gggcgccgag cgttggtggg cgcaggcagc ggcgaggaca accgagctc cgggggggag cgggggggag cggcgccgag cggcgacgtg aatggcacg gggcgctgag gggactggtg gtgagcgagc agggcgtggg cgtgggctc ttcctggcag ccttcactc tatggcgtg gcaggtaacc tgcctgtcat cctctcagtg gcctgaacc gccacctga gacctcacc aactatttca tctgaacct ggccgtggcc gacctgtgc tgaagccac cgtactgcc tctctggcca ccatggaggt tctgggcttc tgggcttttg gccgacctt ctgacagta tggcgccgag tggacgtgct gtgctgacag gcctccatcc tcagcctctg caccatctc acgtgggctg cgtgggctg gcgcactca	Homo sapiens

34	Alpha 1b- adrenoceptor	NP_000669.1	376	377	ctcaagtagacc cagccatcat gaccgagcgc aagcgggcgc ccactcctgc cctgctctgc gtcgtagccc tgggtggtgc cgtaggggcc cgtctgggt ggaaggagcc cgtgccccct gacgagcgct tctgcggtat caccgaggag gcgggctacg ctgtcttctc ctcctgtgtgc tccttctacc tgcccatggc ggtcatcgtg gtcattgtact gccgctgta cgtggtcgcg cgacgacca cgcgcagcct cgaggcagc gtaacgagcg agcgaggcaa ggcctccgag gtggtgctgc gcattccactg tcgcggcgcg gccacggcg cgcacggcgc gcaaggcgcg cgacgcgcca agggccacac ctcccgacgc tcgctctccg tgcgctgct caagtctctc cgtgagaaga aagcgggcaa gactctggcc atcgtcgtg gtgtcttctg tctctgctgc ttccctttct tcttggctct gcgctcggc tcttggctc cgcagctgaa gccatcggag ggcgtcttca aggtcatctt ctggctcggc tacttcaaca gctcgtgaa cccgctcacc taccctgtt ccagccgca gttcaagcgc gcttctctc gctcctcgc ctgccagtgc cgtcgtcgc ggcgcgcgc cctctctg cgtgtctac gccaccactg cggggcctcc accagcgcc tgcgcccagga ctgcgcccc agttcggcg acgcccccc cggagcgccg ctggccctca cgcgctccc cgaccccgac cccgaacccc caggcacgcc cgagatgcag gtcctcggctc cgagccgctc aaagccacc agcgccttc gogagtggag gctgctggg ccgttccgga gaccacgac ccagctcgc gccaaagtct ccagcctgtc gcacaagac cgcccgggg gcgcccagc cgacgagga gctgcgccc agcgtcaga ggtggaggct gtgtccctag cgttcccaca cgaggtggc gaggcgcca cctgccagg ctacgaattg gcgactaca gcaacctac gtagaccgat attaaggc ccagagcta ggcgcggag tgtctgggc ttgggggtaa gggggaccag agagcgggc tgggttctc agagccccg tgcaaatcgc agacccgaa actgatcag gcagctgctc tgtgacatcc ctgaggaact ggcagagct tgaggtgga gccctgaaa ggtgaaaagt agtggggccc cctgctggac tcagtgccc agaactctt tcttagaagg gagagctgc ggcctccgtg gggcctttt ctcccaatcc ctatttga aacactgccc cactctccat gccctgaacc ctgagttagc agccccagc atggccagga agcctgccc SGEDNRSSAG EPGSAGAGD VNCTAAVGGI VVSAQGVGVG VFLLAFILMA VAGNLLVILS VACNRHLQTV TNYFIVNLAV ADLLSATVL PFSATMEVLG FWAFGRFCD WMAAVDVLCC TASILSCTI SVDRYVGRH SLKYPAMTE RKAAAILALL WVVALVSVG PLLGWKEPVP PDERFCGITE EAGYAVFESS CSFYLPMAVI VMYCRVYV ARSTTRSLEA GVKRERKAS EVLRIHCRG AATGADGAHG MRSKAGHTFR SLSVRLLE SREKKAATL AIWGVFVLC WFPFFFLPL GSLFPQLKPS EGVFKVIFWL GYFNVCNPL IYPCSSREFK RAFURLRCQ CRRRRRRRPL WRVYGHWRP STGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPTPEM QAPVASRRKP PSAREWRLL GPFRRPTQL RAKVSSLSHK IRAGGAQRAE AACARSEVE AVSLGVPHEV AEGATCQAYE LADYSNIRET DI aggecaggaga cgtgctgcgg gctggctgc ccgggggaga tgactcctgc cagagggcg A cctctgggaa gaagaccacg ggggaagcaa agtttcaggg cagctgagga gccttcgccc cagcccttc gagcccaatc atccccagg ctatggaggg cggactctaa gatgaatccc gacctggaca ccggccacaa cacatcagca cctgccact ggggagagt gaaaaatgcc aacttactg gcccacaa gacctgagc aactcacac tgccccagct ggacatcacc agggccatct ctgtgggcct ggtgctgggc gccttaccat tctttgccat cgtgggcaac	Homo sapiens
35	Alpha 1b- adrenoceptor	NM_000679	377			Homo sapiens

36	Alpha 1b- adrenoceptor	NP_000670.1	<p>atcctagtca tcttgtctgt ggctgtcaac cggcacctgc ggacgcccac caactacttc atgtcaacc tggccatggc cgacctgtgt ttgagttca ccgtccctgcc ctctcagcg gccctagagg tgctcggcta ctgggtgctg gggcgatct tctgtgacat ctgggcagcc gtggatgtcc tgtgtgcac agcgtccatt ctgagcctgt gcgccatctc catcgatcgc tacatcgggg tgcgtactc tctgcatat cccacgtgtg ttaccggag gaagccatc ttggcgctgc tcaagtgtctg ggtctgtcc accgtcatct ccacgggccc tctccttggtg tggaaggagc cggcacccaa cgatgacaag gagtgcgggg tcaccgaaga acccttctat gacctcttct cctctctggg ctctcttctac atccctctgg cggtcattct agtcatgtac tgccgtgtct atatagtggc caagagaacc accaagaacc tagaggcagg agtcatgaag gagatgtcca actccaagga gctgacctg aggatccatt ccaagaactt tcacgaggac acccttagca gtaccaaggc caagggccac aacccaggga gtcccatagc tgtcaaaactt tttaagtctt ccagggaata gaaagcagct aagacgttgg gcattgtggt cggtatgttc atcttgtgtt ggctaccctt ctctcatgct ctaccgcttg gctccttgtt ctccacctg aagccccccg acgctgtgtt caagtggtg tctggctgg gctacttcaa cagctgcctc aaccctatca tctaccatg ctccagcaag gagtccaag gcgttctcgt gcgcatcctc gggtgccagt gccgcggccg cggccgcgcg cgacgcgcgc gccgcctgc cctggggcgc tgccctaca cctaccggcc gtggacgcgc ggcggctgc tggagcgtc gcagtcgcgc aaggactcgc tggacgacag cggcagctgc ctgagcggca gccagcggac cctgccctcg gctctgcga gccgggcta cctgggcgc cctgggcgc gccagtcga gctgtgcgc tccccgagt ggaaggcgc cggcgccctc ctgagcctgc ccgcgcctga gcccccgcc cgccgcggcc gccacgactc gggcccgctc ttacacttca agctcctgac cgagcccgag agccccgga ccgacggcgg ccgcagcaac ggaggtctgc aggcgcgcgc cgactggcc aacgggcagc cgggcttcaa aagcaacatg cccctggcgc ccgggcagtt ttagggcccc cgtgcgcgc tctcttccc tggggaggaa aacatcgtgg ggggga</p>	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680	<p>LLGWKEPAPN DDKECGVTEE PFYALFSSLG SFYIPLAVIL VMYCRVYIVA KRTKNLEAG VMKEMSNSKE LTLRIHSKNF HEDTLSSTKA KGNHPRSSIA VKLFKFSREK KAAKTLGIVV GMFILCWLPF FIALPLGSLF STLKPPDAVF KVVFWLGYEN SCNPIIYPC SSKEFKRAFV RILGQCQRGR GRRRRRRRRR LGGCAYTYRP WTRGGSLEERS QSRKDSLDDS GSCLSGSQRT LPSASPSPGY LGRGAPPPVE LCAFPPEWKAP GALLSLPAPE PPGRRGRHDS GPLFTFKLLT EPESFGTDGG ASNGCEAAA DVANGQPGEK SNMPLAPQGF gaattccgaa tcaatgtgcag aatgctgaat ctccccccag ccaggacgaa taagacagcg A cggaagca gattctcga attctggaat tgcattgtgc aaggagtctc ctggatcttc gcaccagct tcgggtaggg agggagtccg ggtcccgggc taggccagcc cggcaggtgg agaggggtccc cggcagcccc gcgcgcccc ggcctatgtct ttaatgcccc gcccttcat gtggccttct gaggttccc agggctggcc aggttgttt cccaccgcgc cgcgcgctct caccaccagc caaccacc tggcagggct cctccagcc gagacctttt gattcccgcc tcccgcgctc ccgctccgc gccagcccc gaggtggccc tggacagccg gactcggccc ggccccggct gggaaccatgg tgtttctctc gggaatgct tccgacagct ccaactgcac</p>	Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	379	<p> caaaccgcg gcaccggtga acatttccaa ggccattctg ctcggggtga tcttgggggg cctcattctt ttcgggtgc tgggtaacat cctagtgatc ctctcogtag cctgtcaccg acacctgcac tcaagtcaacg actactacat cgtcaacctg gcggtggcgc accctctgct cacctccacg gtgctgacct tctccgccat cttcgaggtc cttaggtact gggccttcgg cagggtcttc tgaacatctt gggcggcagt gtagtgcgtg tgcgtcacgc cgtcccatat gggctctgc atcatctcca tgcaccgcta catcgcgctg agctaccgc tgcgctaccc aaccatcgc acccagagga ggggtctcat ggctctgctc tgcgtctggg cactctccct ggtcatatcc attggacccc tgttcggctg gaggcagcgc gccccgagc acgagacccat ctgccagatc aacgaggagc cgggctactg gctcttctca gcgctgggt ccttctacct gcctctggcc atcatcctgg tcatgtactg ccgctctac gtggtggcca agaggagag ccggggcctc aagtctggcc tcaagaccga caagtcggac tcggagcaag tgacgctccg catccatcg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagac gcacttctca gtgaggctcc tcaagttctc ccgggagaag aaagcgcca aaacgctggg catcgtggc ggctgcttcg tccctgctg cctgctctt tcttagtca tgccattgg gtcttcttc cctgatttca agcctctga aacagtctt aaaaagtat tttggctcgg atatctaaac agctgcatca acccctcat ataccatgc tccagccaag agttcaaaaa ggcctttcag aatgtcttga gaatccagt tctccgaga aagcagctct ccaaacatgc cctgggtac accctgcacc gccccagcca ggcctggga gggcaacaca aggacatggg gcgcatcccc gtgggatcaa gagagacct ctacagatc tccaagacgc atggcgtttg tgaatggaaa ttttctctt ccatgcccc cgggtgtag aagtaaaagc ttttggagg tctgctgctg ccaatcctcc tgtaccacag ccgggtgtag gaaccatcaa gtccaacca ttaaggctca tgtagggcc tcaaccccca gcttgacaa gactagga agtaaaagc agaggaagc caccatctcc ctcagtgaga acggggagga agtctaggac agaaaagatg cagaggaaaag gggaataatc ttaggtaccc acccacttc cttctcgaa ggcagctct tcttgagga caagacagga ccaatcaaag aggggacctg ctgggaatgg ggtgggtgg agaccaact catcaggcag cgggtaggc acagggaaga gggagggtgt ctcaacca accagttcag aatgatacgg aacagcattt cctgcagct aatgcttct tggctactct gtgccactt caacgaaaac caccatgga aacagaaatt catgcacaat ccaaaagact ataaatatag gattatgatt tcatcatgaa tatttgagc acacactcta agtttgagc tatttcttga tggaagtga gggattttat tttcaggctc aacctactga cagccacatt tgacatttat gccggaattc </p>	Homo sapiens
39	Alpha 2a- adrenoceptor	NM_000681	387	<p> gcgctcggcg ccaaccaggc ggaagccag gagaacctt gcctccgtc cggctcctgg A agagctgac gttaacctgc ccgccccgc ctgaggacgg ggtgctcttc atgcggcccc </p>	Homo sapiens

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40	387	Alpha 2a- adrenoceptor	AAA51664.1	<p>gctcacaaaa ggttaaatgga tggggggttac ctagccctgg ctaattcccc ttccattccc aactctctct ctctttttga agaaaaatgc taagggcagc cctgcctgcc ctccccatcc ccgctgtaa atatacacta tttttgatag cacacatggg gcccccatat ctcttgccct tgggtttgat gttgaaatcc tggccttggg agagatgcct tccaggcaga cacagctgtc tgggttcaggc caagccctct tgaatatgcaa gccctttctg tggttatgaa gtccctctat gtcgtcggtt tcaccagcaa ctggtgactg tcccttcgac acggacctgc tttagagattt cctgacaggg aaagatttc tgtccatttt tttcctgtgc ctaacagcat aattgccttt tccatgtaa atattatgat ggtggatcaa gacataagta aatgacctt tctgcctcac atcagccctg tgtataaagc cattattctc tgatgcactg tttgccccag taactcactt taaaacctct ctttccagt ttcctctct cctccaggg ccactgcttg aagaagaata tgtatgtttc tatctttat gctgtgtgc cctcctgccc ccgaaagtgc tgactatggg gaaatctttt agctgctgtt tttagactcc agggagtga aattatgtgg aagaagcaaa cctgatacaa ttgcccag gtaaacagtt tgaaaagaca aatgggcttg ccaaacgtga cagttcttc ccaagagct gtaggtatc aaatgttgt cctttcccc ctcctgtgctt ttctggttga gatcatgtca ttgatgaact gccaaagtca ggggaggagg gcagagactt tgtgtttaca tctgcatttc tacatgtttt agacagagac aatttaaggc ctgcactctt atttcaacta agaaaaacta atgtcagcac atgttgctaa tgacagtga tttttttta aataaaaaa tttacagatc aatgtgaaa taaatatgaa tggagtgtgc aaa MGS1QPDAGN ASWNGTEAPG GGARATPYSL QVTILTLCIA GLMLLTVFG NVLVIIVFT P SRALKAPQNL FLVSLASADI LVATLIVPFS LANEWMGYWY FGKTWCEIYL ALDVLFTSS IVHLCAISLD RWSITQAI EYNLKRTPRI KALITCWVI SAVISFPPLI SIEKKGSGGG PQPAEPRCEI NDQWYVISS CIGSFFAPCL IMILVYVRIY QIAKRTRVP PSRRGPDVA APPGGTERRP NGLGPERSAG PGGAEEPLP TQLNGAPGER APAGPRDTDA LDLEESSSD HAERPPGPRR PERGPRGK GK ARASQVKPGD SLRGAGRGR RSASGLPRRR AGAGGQNL EK RFTFVLAVI GVFFVWFPP FFFYTLTAVG CSVPRTLFKE FFWFGYCNS LNPVIYTIEN HFRRAFKKI LCRGDRKRIV</p>	Homo sapiens
41	388	Alpha 2b- adrenoceptor	NM_000682	<p>atggaccacc aggaccctta ctcctgtcag gccacagcgg ccatagcggc ggccatcacc A ttctcattc ttcttaccat cttcggcaac gctctggtca tcttggtgtg gttgaccagc cgctcgctgc gcgccctca gaacctgttc ctggtgtcgc tggccgccgc cgacatcctg gtggccacgc tcatcatccc tttctcgctg gccaacgagc tgctgggcta ctggtacttc cggcgacgt ggtgcgaggt gtacctggcg ctgacgtgc tcttctgcac ctgtccatc gtcacctgt gcgccatcag cctggaccgc tactgggccc tgagccgcgc gctggagtac aactccaagc gcaccccgcg ccgcatcaag tgcattccc tcaactgtgt gctcatcgcc gccgtcatct cgtgcgcgc ccctcatcac aaggcgagc agggccccc gcgcgcggg cgccccagt gcaagtcaa ccaggaggcc tggatcatcc tggcctccag catcggtatc ttctttgctc ctgctctcat catgacctt gtctacctg gcattacct gatcgccaaa cgcagcaacc gcagaggtcc cagggccaa ggggggacct ggcagggtga gtccaagcag cccagaccg accatggttg gctttggcc tcagccaaac tgcagccctt ggcctctgtg gctctgtcca gagaggtcaa cggacactcg aagtcacctg ggcagaaagg gaggggggag acctctgaag atactgggac ccgggccttg ccacctagt gggctgacct tcccaactca ggccagggcc agaaggaggg tgtttgtggg gcactctccag aggatgaagc tgaagaggag</p>	Homo sapiens

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Homo

P

RSLRAPQNLF

LVSILAAADIL

ALVILAVLTS

FLILFTIFGN

ATAATAAAIT

NP_000673.1

Alpha 2b-

388

42

adrenoceptor	Alpha 2c- adrenoceptor	389	Alpha 2c- adrenoceptor	NM_000683	ctgcaggcgg ccttgaggg ggcgcctcgc cagagcgcg cccccgcgc gccgccccgg A	Homo sapiens
VATLIPFSL ANELLGYWF RRTWCEVYLA LDVLFCTSSI VHLCAISLDR YWAVSRALEY	NSKTRPRRIK CIILTWLIA AVISLPLIY KGQGGPQPRG RPQCKLNQEA WYILASSIGS				actctctccc ggcgcgcgc ggcagagttc gaccagggcg ccgcgggctc cggttccccg	sapiens
FFAPCLIMIL VYLRILYIAK RSNRRGPRAK GPGQGSGSKQ PRPDHGGALA SAKLPALASV	ASAREVNGHS KSTGEKEEGE TPEDTGTALR PQSWAALPNS GQGQKEGVCG ASPEDEAESEE				ccagctcccc agggcccgcg gcgccccgc cgcgcgcgc gcccgctgc gctaaactcga	
EEEEEEBEC EPQAVPVSPA SACSPPLOQP QGSRVLATLR GQVLLGRGVG AIGGQWRRRR	AHVTREKRET EVLAVVIGVF VLCWFPEFFS YSLGAICPKH CKVPHGLFQF FEWIGYCNS				cccaagttgg aagcagatcg cagcgggcg cagcgagggc cagcgagggc ggcgcggcg	
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Alpha 2c-
adrenoceptor

44

389 NP_000674.1

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LIVFTVGVNV LVVIAVLTSR ALRAPQNLFL VSLASADILV ATLVMPFSLA NELMAYWYFG
QVWCGVYLAL DVLFTSSIV HLCALSLDRY WSVTQAVEYN LKRTPRRVKA TIVAVWLISA
VISFPLVSL YRQPDGAAYP QCGLNDETWY ILSSCIGSFF APCLIMGLVY ARIYRVAKRR
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RARSSVCRK VAQAREKRFI FVLAVVMGVF VLCWFFPFFFI YSLYGICREA CQVPGPLFKE
FWIGYCNSS LNPVIYTVFN QDFRPFKHI LFRRRRGFR Q

45

Bradykinin
B1 Receptor

45

599 NM_000710

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cc

45

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPELE QSSNQSLFP QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P VFLLPRRQLN VAEIYLANLA ASDLVFVLGL PFWAENIWNQ ENWPFGALLC RVINGVIRAN LFISIFLVVA ISQDRYRVIV HPMASGRQQR RRQARVTCVL IWWVGGLLSI PTFLLRSIQ A VPDLNITACI LLLPHEAWHF ARIVELNIG FLEPLAAIVF VRYHILASLR TREVSRTRV RGPDKSKTTA LILTLVAF VCVAPYHFFA FLEFLFQVQA VRGCFWEDFI DLGLOLANFF AFTNSSLNVP IYVFGRLFR TKWELYKQC TPKSLAPQSS SHRKEIFQLF WRN	Homo sapiens
47	600	Bradykinin B2 Receptor	NM_000623	atgttctctc cctggaagat atcaatgttt ctgtctgttc gtgaggactc cgtgccacc A acggcctctt tcagcgcca catgtcata gtccacttc aaggccccac tcttaacggg acctttgcc agagcaaatg cccccaagt gagtggctgg gctggctcaa caccatccag cccccttc tctgggtgct gtctgtgctg gccacctag agaactctt tgtcctcagc gtcttctgcc tgcacaagag cagctgcacg gtggcagaga tctacctgg gaaacctggc gcagcagacc tgatcctggc ctgcgggctg ccttctggg ccatcaccat ctccaacaac ttcgactggc tctttgggga gacgctctg cgcgtggtga atgccattat ctccatgaac ctgtacagca gcatctgttt cctgatgctg gtgagcactg accgtaacct ggccctggg aaaacctgt ccatggggcg gatgcgcgcg gtgagcactg ccaagctcta cagcttggg atctgggggt gtacgtgct cctgagctca cccatgctgg tgtccggac catgaaggag tacagcgatg agggccaca cgtcacccgt tgtgtcata gctaccatc cctcatctgg gaagtgttca ccaacatgct cctgaatgtc gtgggcttc tctgcccc gaagtctac accttctgca ccatgcagat catgcagggt ctgcggaaca acgagatgca gaagtccaag gagatccaga cggagaggag ggccacgggt ctagtctgg tttgtctgct gctattcact atctgtggc tgccttcca gatcagacc tctctggata cgtctgcatg cctcggcatc ctctccagct gccaggacga ggcctatc gatgtaata cacagatgc ctcttcatg gcctacagca acagctgct caaccactg gtgtacgtga tctggggcaa gcgcttccga aagaagtctt ggaggtgta ccaggagtg tgcagaaag ggggctgcag gtcagaacct attcagatgg agaactccat ggacacactg cggacctcca tctcgtgga acgccagatt cacaactgc agactgggc agggagcaga cagtgcagca acgccagcag ggctgctgtg aatttgtga aggattgag gacagtgtt tttcagcatg ggcccaggaa tgccaaaggag acatctatgc acgacctgg gaaatgagt gatgtctccg gtaaacacc ggagactaat tctgcccctg ccaattttg caggagcat ggtgtgagg atggggtgaa ctacgcaca gccaaggact ccaaatcac aacagcatta ctgttcttat ttgtgccac acctgagcca gcctgctcct tcccaggat ggaggaggc tggggggagg gagaggagt actgagcttc cctccctgt gtctccgtc cctgccccag caagacaact tagatctcca ggagaactgc catccagctt tgggtgcaatg gctgagtga caagtgggt ttgccccgg gtttctttaa tctattcagc tagaactttg aaggacaatt tctgcatata ataaagtta agccctgagg ggctccctgat acaactctg agaccaggat ttatggctc cctcactga tggacaagga ggtctgtgcc aagaagaat ccaataagca catattgagc acttgctga tatgagat tgagcactgt agccaagacc caaagaagag aaggagccat ctccatctt aggaactca aagactcaag tgggaacgac tgggcatgc caccaccaga agctgttctg acgagacggt cgagcagggt gctgtgggtg atatggacag cagaaggggg agccaaggt tccagctcaa ccaataacta ttgcacaacc acctgtccct ccttctatgt aacatgaagt cgttgtgagg gttaaaggca gtaacaggta taaagtactt agaaaagcaa aggtgtgctac	Homo sapiens

48	600	Bradykinin B2 Receptor	NP_000614.1	<p> gtagatgtga ggcatacatta cgcagacgta actgggatat gtttactata aggaaaaagac actgaggtct agaaatagct ccgtggagca gaatcagtat tgggagcccg tggcgggtgtg aagcaccagt gtctggcaca cagtaggtgc tcatggctc ccttcacact gtcattocca ccacctgag gccccaaccg ccacacacac aggagcattt ggagagaagg ccatgtcttc aaagtctgat ttgtatgag gcagaggaag atatttctat tcggtcttgc ccagagagatc acagtgtga gacccccac caccagcccg tacctgggaa gggggagagt gcaggcctgc tcagggactg ttctgtctc agcaaccaag ggatgttcc tgtcaatcaa tggttttatg gaagtggtcc cagtatgagc cctagaagag tgtgaaaagg aatggcaatg gtgttcacca tcggcagtgc cagggcagca ctcattcact tgataaatga atatttatta gctggttgga gagctagaac ctggagagct agaacctgga gaactagaac ctggagggct agaacctgga gaggttagaa ccaagaagg ctgaacctg gagggctag aacctagaga agctaaaacc tgagctagaa gctggaggac tagaacctgg agggctgaa tctgaaggc tagaacctgg agggctgaa tctggagagc tagaacctgg agggctgaa cctggaggc tagaacctag aagggttaga acctggagg ctggaatctg gagagctaga acctggagg ctagaacctg gagggctaga acctagaag gctagaacct ggagggttag aacctggcag gttagaacct agaagggtc gaaacctgg agccagaacc tggagggtc gaacctggc aagctagaac ctgtagagct agaacatgga gagctagaac cgggcaggct agaacctggc aagctagaac ctggagggaa tgaacctgga gggctagaac ctggagaagt agaaaaattt acatggcaaa gagccataa atcctgacca atccaactct gaatttttaa gcaaaagcgt gaaaaaaag attccctct taccccaac ccactctttt tcccaccac ccactctct ctgcctcagt aagtatctgg aggaagaaa caggtgaaag aagaagtaa aacctttag tattagtatt agaatgaagt caactgtgc cacacatggt gaatgaaaa aaaaaaaag aggtgtgtt ttgtcacaca ggcagtcac tcagcaccag agcacgtgat ggtctgagac tctcttagga gcagagctct gcccaatgg ccattgtggg atccacacct ggtctgagg gcaactgagt ctgcgggaga agagcgccc tatgcatggt gtagatgcc ttagataagaa catctgtcct gtgaaaagact caatgagctg ttatgttga aacaggaagc attcacatc caaacgagaa aatcatgtaa acatgtgtct tttctgtaga gcataataaa tggatgaggt ttttgcaaaa aaaaaaaaaaaa MFSPWKISMF LSVREDSVPT TASFSADMLN VTLOGPTLNG TFAQSKCPQV EWLGLWLTIQ P PPFLWLVFL ATLENIFVL ATLENIFVL VFCLHKSSCT VAETYLGNLA AADLILACGL PFWAITISNN FDWLFGETLC RVNNAIISMN LYSSICFLML VSIDRYLALV KTNMGRMRG VRWAKLYSLV IWGCTLLLS PMLVFTMK YSDEGHNVT CVISYPSLIW EVFTNMLNV VGFLPLSLVI TFCITQIMQV LRNNEMQKFK EIQTERRATV LVLVLLFI ICWLPEFQIST FLDTLHRLGI LSSCODERII VITQIASFM AYSNSCLNPL VYVIVGKRFR KKSWEVYQGV CQKGGCRSEP IQMENSMTGL RTSISVERQI HKLQDWAGSR Q tgctaccgc gccggggtt ctggggtgtt ccccaaccac ggcccagccc tgccacacc A cccgccccg gccctccgag ctgcgcatgg gcgggggggt gctcgtcctg ggcgctccg agcccggtaa cctgtcgtcg gccgaccgc tcccagcgg cgcggccacc gcggcgcggc tgctgtgtcc cgcgtcgccg cccgctcgt tgctgcctcc cgcagcgaa agccccgagc cgtgtctca gcagtggaca gcgggcatgg gctcgtgat gcgctcatc gtgctgtca tcgtggcggg caatgtgtg gtgcatcgtg ccatcgccaa gacgcgcgg ctgcagacgc </p>	Homo sapiens
49	635	Beta-1 adrenoceptor	NM_000584	<p> tgctaccgc gccggggtt ctggggtgtt ccccaaccac ggcccagccc tgccacacc A cccgccccg gccctccgag ctgcgcatgg gcgggggggt gctcgtcctg ggcgctccg agcccggtaa cctgtcgtcg gccgaccgc tcccagcgg cgcggccacc gcggcgcggc tgctgtgtcc cgcgtcgccg cccgctcgt tgctgcctcc cgcagcgaa agccccgagc cgtgtctca gcagtggaca gcgggcatgg gctcgtgat gcgctcatc gtgctgtca tcgtggcggg caatgtgtg gtgcatcgtg ccatcgccaa gacgcgcgg ctgcagacgc </p>	Homo sapiens

50	Beta-1 adrenoceptor	NP_000675.1	635	<p> tgccggttcg ggcaccacc gtggtgtgg ggcgtggga gtacggctcc ttcttctcgc agctgtggac ctacgtggac gtgctgtgcg tgacggcccg catcgagacc ctgtgtgtca ttgcccctgga ccgtaccct gccatcacct cgccttccg ctaccagagc ctgtgacgc gcgcgcgggc gcggggccctc gtgtgcaccg tgtggccctc ctggccctg gtgtccctcc tgccatccct catgcaactg tggcggggcg agagcgagc ggcgcggcg tgctacaacg acccaagtgc ctgcgacttc gtcaccaacc ggcctaacg catcgccctc tccgtagtct cctttacgt gccctgtgc atcatggcct tctgtacct gcgggtgttc cgcgagggcc agaagcaggt gaagaagatc gacagctgcg agcgccgttt cctcggcgcc ccaagcgggc cgcctcgcc ctgcctcgc cccgtcccg cgcgcggcg ccaacggcg tgcgggtaag cggcgggcct cgcgcctcgt ggcctacgc gacgagaag cgtcaaacg gctgggcatc atcatggcg tcttcacgt ctgctggctg ccttcttcc tggccaactg ggtgaaggc ttccacgcg agctggtgcc cgaccgctc ttcttcttct tcaactggct ggcctacgcc aactcgccct tcaaccccat catctactgc cgaagcccg acttccgaa ggccttccag ggaactgctct gctgcgcgcg cagggtctgc cgcggcgcc acggaacca cggagaccgg ccgcgcgct cgggctgtct ggcgcggccc ggaaccccg catgcgccg ggcgcctcg gacgacgag acgacgatgt cgtcggggcc acgcggcccg cgcgctgtc ggaagccctg gccggctgca aeggcggggc gcgcggggac agcgactcga gctgggacga cctgtgccg cccggcttcg cctcggaatc caaggtgtag ggcgcggcg gggcgcgga ctcggggcac ggcttcccag gggacgag agatctgtgt ttaactaaga cgaatagcag gtgaactcga agcccaaat cctcgtctga atcatccgag gcaagagaa agccacgga cgttgacaa aaaaaggaaa ttggggaagg gatgggagag tggctgtcg atgttctctg ttg </p>	Homo sapiens
51	Beta-2 adrenoceptor	NM_000024	640	<p> MGLMALIVL LIVAGNVLVI VAIKTPRLQ TLNLFIMSL ASADLMGLL VPFQATIVV WGRWEYGSFF CELMTSDVL CVTASITLC VIALDRYLA TSFPRYQSL TRARAGLVC TVWALSALVS FLPILMHWR AESDEARCY NDPKCCDFVT NRAYAIASSV VSFYVPLCIM AFVYLRVRE AQKVKKIDS CERFLGGPA RPPSPSPV PAPAPPPGP RPAATAATAP LANGRAGKRR PSRLVALREQ KALKTILGIIM GVTLCLWLP FLANVVKAFH RELVPDRLFV FFNLGYANS AFNPIYCRS PDFKAFQGL LCCARRAARR RHATHGDRPR ASGLARPGP PPSPCAASDD DDDDVVGATP PARLEPWAG CNGGAAADSD SSLDEPCRP FASESKV actggaagc ggcttcttca gagcacggc tggaaactggc agcacccgc agccctagc A acccgacaag ctgagtgctc agcacgagtc ccacacac ccacacaca gccgtgaat gaggttcca ggcgtccgt cgcggcccg agagcccg cgtgggtccg ccgctgagg cgccccagc cagtgcgtt acctgcaga ctcgcgcca tggggcaacc cgggaacggc agcgccttct tctgggacc caatagaagc catgcggcg accacgacgt cagcagcaa aggacgagg tgtgggtggt ggcagtggtc atcgtcatgt cctcatcgt cctggccatc gtgtttggca atgtgtggt catcacgac attgccaagt tgcagcgtct geagacggtc accaactact tcatcactc actggcctg tcatgggctt tgcagtggtg gcagtggtg cctttgggg ccgccatat tctatgaaa atgtggactt ttggcaactt ctggtgcgag ttttgactt ccattgatgt gctgtgcgtc acggccagca ttgagaccct gtgctgtgatc </p>	Homo sapiens

52	640	Beta-2 adrenoceptor	NP_000015.1	<p>gcagtggtatc gctactttgc cattacttca cctttcaagt accagagcct gctgaccaag aataaggccc gggtgatcat tctgatgtgtg tggattgtgt caggccttac ctcttctttg ccattcaga tgcactggta ccgggccacc caccaggaag ccatcaactg ctatgccaat gagacctgct gtgacttctt caggaaccaa gcctatgcca ttgctcttcc cctgctgtcc ttctacgttc cctgtgtgat catgtgtctt gctactcca gggtctttca ggaggccaaa aggcagctcc agaagattga caaatctgag ggccgttcc atgtccagaa ccttagccag gtggagcagg atgggcccgc ggggcatgga ctccgcagat ctccaagt ctgcttgaag gagcacaaa cctcaagac gttaggcatc atcatggga ctttaccct ctgctggctg cccttcttca tctttaacat tctgcatgtg atccaggata acctcatccg taaggaaagt tacatcctcc taaattggat aggtatgtc aattctggtt tcaatcccc tcttactgc cggagcccag atttcaggat tgccttccag gagcttctgt gctgcccag gtcttctttg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taaactgtct gttgaagacc tcccaggac ggaagacttt gtgggccatc aaggtactgt gcttagcat aacattgatt cacaagggag gaattgtagt acaaatgact cactgctgta aagcagttt tctacttita aagaccccc ccccccaac agaacactaa acagactatt taacttgagg gtaataaaact tagaataaaa ttgtaaaaaat tgtatagaga tatgcagaag gaaggccatc ctctgctt ttttatttt ttaagctgta aaaagagaga aaacttattt gactgattat ttgttattt tacagttcac ttctctttg catggaattt gtaagtattt gctaaaagag ctttagctt agaggacctg agtctgctat attttcatga cttttccatg tatctacctc actattcaag tattagggtt aatatattgc tgctggtaat ttgtatctga aggagatttt ccttctaca ccttggact tgaggatttt gagtatctcg gacctttcag ctgtgaacat ggactcttcc cccactctc ttatttgc acacggggtg ttttaggcag ggatttgagg agcagcttca gttgttttcc cgagcaaaag tctaaagttt acagtaata aatgtttga ccatg</p>	Homo sapiens
53	643	Beta-3 adrenoceptor	NM_000025	<p>MGQPGNGSAF LLAENRSHAP DHVDTQQRDE VMVGMGIVM SLIVLAIVFG NVLIVTIAIAK P FERLQTVTNY FITSLACADL VMGLAVPFG AAHILMKMT FGNFWCEFWT SIDVLCVTAS IETLCVIAVD RYFAITSPFK YQSLLTKNKA RVILMWIV SGLTSFLPIQ MHWYRATHQE AINCYNATC CDFETNQAYA IASSIVFYV PLVIMVYVS RVFQEAQRQL QKIDKSEGRE HVONLSQVEQ DGTGHGLRR SSKFCLKEHK AKTLGIIMG TFLCWLPEF IVNIVHVIQD NLIRKEYIIL LNWIGYVNSG FNPLIYCRSP DFLAFQELL CLRRSSLKAY GNGYSSNGNT GEQSGYHVEQ EKENKLLCED LPETEDFVGH QETVPSDNID SQGRNCSTND SLL gctactctc cccaagagc ggtggcaccg agggagtgtg ggtgggggga ggtgagcgc A tctggctggg acagctagag aagatggccc aggtgggga agtgccttc atgcttgc gtccctccc ctgagccagg tgatttgga gacccctcc tctcttctt ccttaccgc ccacgcgca cccggggatg gctccgtgc ctacagagaa cagctctctt gcccacatggc cggacctccc caccctggcg ccaataaccg ccaacaccag tgggtgcca ggggttccgt gggagggcggc cctagccggg gacctgctg cgtggcgggt gctggccacc gtgggagga acctgctgt catctggcc atcgccctga ctcagagact ccagaccatg accaacgtgt tctgacttc gctggccgca gcagacctg tbatgggact cctggtgtg ccgcccggcg ccacttggc gctgactggc cactggcctg tggggccac tggctgcgag ctgtggacct cgttggaact gctgtgtgtg accgcagca tggaaacctt gtcgcccctg gctgtggacc</p>	Homo sapiens

Homo sapiens

**Beta-3
adrenoceptor**

54 643

55	688	Opsin, blue-sensitive	NM_001708	<p>CRGRRRLPPE PCAAARPALF PSGVPAARSS PAQPRLCQRL DGASWGVs</p> <p>ggcatccatg agaaaaatgt cggaggaaga gttttatctg ttcaaaaaata tctcttcagt A</p> <p>ggggccgtgg gatgggctc agtaccacat tgcccctgtc tgggccttct acctccaggc</p> <p>agctttcatg ggcatgtgt tcttatagg gttcccaact aatgccatgg tgcgtggtggc</p> <p>cacactgcgc tacaaaaagt tgcggcagcc cctcaactac attctggtca acgtgtcctt</p> <p>cggaggcttc ctccctcgca tcttctctgt ctccctctgt ttctgctgcca gctgtaacgg</p> <p>atacttcgtc ttctgctgcc atgtttgtgc ttggagggc ttctgggca ctgtagcagg</p> <p>tctggttaca ggatggtcac tggccttctt ggccttttag cgctacattg tcatctgtaa</p> <p>gcccttcggc aacttccgtc tcagctccaa gcatgcactg acggtggtcc tggctacctg</p> <p>gaccattggt attggcgtct ccatccacc cttctttggc tggagccggt tcatccctga</p> <p>ggccttgca ggttctctgt tcatcttctg cttcttctgt cctctctccc tcatctgctt</p> <p>gtctatacg tggttctctc tcatcttctg agctgttgca gctcagcagc aggagtcagc</p> <p>ctctacact cagctgctga gggccctgaa agctgttgca gctcagcagc aggagtcagc</p> <p>tacgacccag aagctgaac gggaggtgag cgcgatggtg gttgtgatgg taggatcctt</p> <p>ctgtgtctgc tacgtgccct acggggcctt cgcgatgtac atggtcaaca accgtaacca</p> <p>tgggctggac ttacggcttg tcaccattcc ttcatctctc tccaagagtg cttgcatcta</p> <p>caatcccatc atctactgct tcatgaataa gcatgtccaa gcttgcatca tgaagatggt</p> <p>gtgtgggaag gccatgacag atgaatccga cacatgcagc tccagaaaaa cagaagtctt</p> <p>caatcccatc atctactgct tcatgaataa gcatgtccaa gcttgcatca tgaagatggt</p> <p>tactgtctcg tctaccacaa ttggccccc aatattggcc tgtttgcaac</p> <p>agctagaatt aaatttact t</p>	Homo sapiens
56	688	Opsin, blue-sensitive	NP_001699.1	<p>MRKMSSEEFY LFNKISSVGP WDGPQYHIAP VWAFLQAAF MGVFLIGFP LNMVLVATL P</p> <p>RYKLRQPLN YILNVSEFG FLICFVSFP VFGRHVCALE GLGTGVALV</p> <p>TGWSLAFLAF ERYTVICKPF GNFRESSKHA LTVVLATWTI GIGVSIPPF GWSRFIPEGL</p> <p>QSCGPDWYT VGTKYRSESY TWFLIFCFI VPLSLICFSY TQLRLALKAV AAQQESATT</p> <p>QKAEREVSRL VVMVGSFCV CYVPYAFAM YMVNLRNHGL DLRLVTIPSF FSKSACIYNP</p> <p>IIYCFMNKQF QACIMKMWCG KAMTDES DTC SSQKTEVSTV SSTQVGP</p> <p>gagtatctgg atgtcttggg tttcttccc attctgttct gttctgttct cctaatacca A</p> <p>tctcgttact agacgtaggc attggacgtg acaatcaact gaattgaa tgagaagaag</p> <p>aaatattaaa gacacagtc tcaagaagaa tggctcaaa gcaagcctcac tcaactaatc</p> <p>agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtggtt tctaacgata</p> <p>acacaaataa aggatggagc ggggacaaat ctccaggaat agaagcattg tctgacctct</p> <p>atattactta tgcgtgatc attcagtggt gcatccttgg aaatgctatt ctcatacaag</p> <p>tctttttcaa gaccaaattc atgcaaacag ttccaaatat ttctatcacc agcctggctt</p> <p>ttggagatct tttacttctg ctaacttggg tgcagtgga tgcaactcac taccttgtag</p> <p>aaggatggct gttcgggaaga attggttga agtgcctctc ttctatccgg ctcaactctg</p> <p>ttggtgtgtc agtgttcaca ttaacaattc tccatgcca tctgtaagac ttgtgtaaaa gctggctgag</p> <p>agccacttga ggcacagccc tccatgcca tctgtaagac ttgtgtaaaa gctggctgag</p> <p>tctggatcgt gtcctatgata ttgtctctac ctgaggttat atttcaaat gtatcacatt</p> <p>ttcggatccc caataaaaa atgacatttg aatcatgtac ctttatcct gtctctaaga</p> <p>agctcttgca agaaatacat tctctgtgtg gctctatagt ttctacatt attccactct</p> <p>ctattatctc tgtctactat tctctgattg ctaggacctt ttacaaaagc acctgaaca</p>	Homo sapiens
57	692	Bombesin Receptor Subtype-3	NM_001727		Homo sapiens

58	Bombesin Receptor Subtype-3	NP_001718.1	<p>tacactactga ggaacaaagc catgcccgta agcagattga atccccaaag agaattggcca gaacggtatt ggtgttggtg gctctgttg cctctgttg gttgccaat cactcctgt acctctacca ttcatcact tctcaaacct atgtagacc cctgccaatg catttcattt tcaccatttt ctctcggtt ttggctttca gcaattcttg cgtaaacccc ttgctctct atggctgag caaaagcttc cagaagcatt ttaaagctc gttgttctgt tgaaggcgg agcgccctga cctcctgtt cgtgacacct ctcttaccac cctggcctgt atgggaacgg tccccggcac tgggagcata cagatgtctg aaattagtgt gacctgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaaatgtgc ttctctccc agcgtgtga tccgactcta agctgtgtgc agg</p> <p>GILGNAIIK VFFKTKSMOT VPNIIFITSLA FGDLLLLLTC VPVDATHYLA EGWLFGRIGC KVLSEFRLTS VGVSVFTLTI LSADRYKAVV KPLERQPSNA ILKTCVKAGC WVIVSMIFAL PEALFESNVYT FRDPNKNMTF ESCTSYPVSK KLLQEIHSLL CFLVFIIPPL SIISVYSLI ARTLYKSTLN IPTEEQSHAR KQIESRKRIA RTVLVLVALF ALCWLPNHLI YLYHSFTSQI YVDPSAMHFI FTIFSRVLAF SNSCVNPEAL YWLSKSFQKH FKAQLFCCKA ERPEPPVADT SLTTILAVMGT VPGTGSIQMS EISVTSFTGC SVKQAEADR</p>	Homo sapiens
59	CXC Chemokine Receptor 5	NM_001716	<p>gctgccacct ctctagaggc acctggcggg gacccctca acataagaca gtgaccagtc A tggtgactca cagccggcac agccatgaac tacccgctaa cgctggaaat ggacctcgag aaactggagg acctgttctg ggaactggac agattggaca actataacga cactcctctg gtggaataat atctctgcc tggcacagag gggccctctc tggcctcctt caaggccgtg ttcgtgcccg tggcctacag cctcatcttc ctctctggcg tgatcggcaa cgtcctgggtg ctggtgatcc tggagcggca cgggcagaca cgcagttcca cggagacctt cctgttccac ctggccgtgg ccgacctcct gctggtcttc atcttgccct ttgccgtggc cgaaggctct gtgggctggg tccctggggc cttcctctgc aaaaactgtg ttgccctgca caaagtcaac ttctactgca gcagcctgct cctggcctgc atgcctgtg accgctacct ggcattgtc cacgccgtcc atgcctaccg ccacggccgc ctctcttcca tccacatcac ctgtgggacc atctggctgg tgggcttctt ccttgccctg ccagagattc tcttcgcca agtcagccaa ggccatcaca acaactccct gccacgttg gccctctcc aagagaacca agcagaacg catgcctggt tcaactcccg attctctac catgtggcgg gattcctgct gccatgctg gtgatgggt ggtgctacgt gggggtagtg cacaggttgc gccaggccca gcggcgccct cagcggcaga aggcagtcag ggtggccatc ctggtgacaa gcatcttctt cctctgctgg tcacctacc acatcgtcat cttcctggac accctggca ggtgaaaggc cgtggacaat acctgcaagc tgaatggctc tctcccctg gccatcaca tgtgtgagtt cctgggacctg gccactgct gactcaacc catgctctac actttcccg gcgtgaagt cgcagtgac ctgtcgcggc tcttgacgaa gctgggctgt accggccctg cctccctgtg ccagctctc cctagctggc gcaggagcag tctctctgag tagagaaatg ccacctctct caccacgttc taggtcccaag tgtccctttt tattgtgctt ttctcttggg gcaggcagtg atgtggatg ctccttccaa caggagctgg gactctaaag gctcacctg gctaaagatg tcttaggagt atctcatatt ggggtagcta taggaaccaa ccccatcttc tagaacatcc ctgccagctc ttctgccggc cctgggggcta ggtggagcc cagggagcgg aaagcagctc aaaggcacag tgaaggctgt ccttaccat ctgaccccc cttgggctgag agaacctcac gcacctccca</p>	Homo sapiens

60	729	CXC Chemokine Receptor 5	NP_001707.1	<p> MNYPLTLEMD IENLEDLFE LDRLDNYNDT SILVENHLCPA TEGPLMASFK AVFVPVAYS L P IFLLGVIGNV LVLVILERHR QTRSSTETFL FHIAVADLLL VFILPFAVAE GSVGWVLGTF LCKTVIALHK VNFYCSSLIL ACIAVDRYLA IVHAVHAYRH RRLLSIHITC GTIWLVGFL ALPEILFAKV SQGHNNSLP RCTFSQENQA ETHAWFTSRE LYHVAGFLP MLVMGWCYVG VVHRLRQAO RRPORQKAVRV AILVTSIFFL CWSPHYHIVIF LDTLARLKAV DNTCKLNGSL PVAITMCEFL GLAHCCLNPM LYTFAGVKFR SDLSRLTLTKL GCTGPASLCQ LFPSWRRSSL SESENATSLT TF ggcagcagcc cagaacacaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaaac tccaacacac acagaggact atgacacgac cacagagttt gactatggg atgcaactcc gtgccagaag gtgaacgaga gggcccttgg gggcccaactg ctgccccctc tgtactcctt ggtatttgc attggcctgg ttggaacat cctgggtggc ctggtcctg tgcaatacaa gaggtataaa aacatgacca gcatctacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctccccctct aagatcctct ctgggtttta ttacacaggc ttgtacacg tttttgggta tgccatgtgt aagatcctct ctgggtttta ttacacaggc ttgtacacg agatcttttt catcatcctg ctgacgattg acaggtacct ggcctatcgc cagccctgt ttgacctggt ggcacggacc gtcaatttgg gtgtcatcac cagcatcatc atttgggccc tggccatctt ggttccatg ccaggcttat acttttccaa gacccaatgg gaattcactc accacacctg cagccttcac ttctctcag aagcctacg agagtggag ctgtttcagg </p>	Homo sapiens
61	735	C-C Chemokine Receptor 1	NM_001295	<p> ggcagcagcc cagaacacaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaaac tccaacacac acagaggact atgacacgac cacagagttt gactatggg atgcaactcc gtgccagaag gtgaacgaga gggcccttgg gggcccaactg ctgccccctc tgtactcctt ggtatttgc attggcctgg ttggaacat cctgggtggc ctggtcctg tgcaatacaa gaggtataaa aacatgacca gcatctacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctccccctct aagatcctct ctgggtttta ttacacaggc ttgtacacg tttttgggta tgccatgtgt aagatcctct ctgggtttta ttacacaggc ttgtacacg agatcttttt catcatcctg ctgacgattg acaggtacct ggcctatcgc cagccctgt ttgacctggt ggcacggacc gtcaatttgg gtgtcatcac cagcatcatc atttgggccc tggccatctt ggttccatg ccaggcttat acttttccaa gacccaatgg gaattcactc accacacctg cagccttcac ttctctcag aagcctacg agagtggag ctgtttcagg </p>	Homo sapiens

62	735	C-C Chemokine Receptor 1	NP_001286.1	<p>ctctgaaact gaacctcttt gggctggtat tgcctttgtt ggtcatgac atctgtaca caggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtcogtt tgatttttgt catcatgac atcttttttc tcttttgac ccctacaat ttgactatac ttatttctgt ttccaagac ttctgttcca cccatgagtg tgagcagagc agacatttgg acctggctgt gcaagtgaag gaggtagtcg cctacacgca ctgctgtgtc aaccagtgga tctacgcctt cgttggtgag aggttcgga agtacctgcg gcagttgttc cacaggcgtg tggctgtgca cctgggttaa tggctccctt tctctccgt ggacaggctg gagagggtca gctccacatc tccctccaca ggggagcatg aactctctgc tgggttctga ctcagacct aggaggccaa cccaaaataa gcaggcgtga cctgccagc acactgagcc agcagcctgg ctctccagc caggttctga ctctggcac agcatggagt cacagccact tgggatatag agggaatgta atggtggcct ggggttcttg aggttcttg ggcttcagtc ttctccatga acttctccc tggtagaag agatgaatg agcaaaacca atattccag agactgggac taagtgacc agagaaggc ttggactcaa gcaagatttc agatttga ccatlagcat ttgtcaaca agtcacccac ttccactat tgcttgaca aaccaattaa acccagtagt ggtgacttg ggtccattc aaagtgagct cctaagccat gggagacac gatgtatgag gaatttctgt tcttccatca cctccccc cccgccacc tccactgcc aagaacttgg aaatagtgat ttccacagtg actccactct ggtccaga gccaatcagt agccagcatc tgctccctt tcactccac cgcaggattt gggctcttgg aatcctggg aacatagaac tcatgacgga agagttaga cctaacgaga aatagaaatg gggaaactac tgcaggcgt ggaactaaga agcccttag gaagaatttt tatatccact aaaaataaac aattcaggga gtgggctaag caggggcat atgaataaca tgggtgtctt cttaaaatag ccataaagg gagggactca tcaattccat ttacccttct ttctgacta ttttccagaa tctctctct tttcaagtgt ggtgatagt tggtagattc taatggcttt attgcagcga ttaataacag gcaaaaggaa gcagggttgg ttcccttctt tttgttctt catctaagcc ttctggttt atgggtcaga gttccgactg ccatcttga cttgtcagca aaaaaaaa aaaaa METPNTTEDI DTTFEDYD ATPCKNER AFGAQLPPL YSLVFVIGLV GNILVLVLV P QYRLKNMTS IYLNLAISD LLFLTLPEW IDYKLDDWV FGDAMCKILS GFYVTGLYSE IFFILLTID RYLAIVHAVF ALRARTVTFG VITSIIWAL AILASMPGLY FSKTQWETH HTCSLHPHE SLREWKLFQA LKLNLFGLVL PLLVMIICYT GIILKILRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLFT HECEQSRHLD LAVQVTEVIA YTHCCVNPVI YAFVGERFRK YLRQLFHRV AVHLVKWLPF LSVDRLEVS STSPSTGEHE LSAGE</p>	Homo sapiens
63	737	C-C Chemokine Receptor 3	NM_001837	<p>ttttcttctt tctatcacag ggagaagtga aatgacaacc tcaatagata cagttgagac A cttttgtacc acatctact atgtagcagt gggcctgtct tgtgaaaaag ctgataccag agcaatgatg gccacgtttg tgccccctgt gtaactccct gtgttccact tgggcctctt ggcgaatgtg gtggtggtga tgatctctcat aaataacag aggtccgaa ttatgaccaa catctacctg ctcaacctgg ccatctcgga ctgctcttc ctgctcacc ttccattctg gatccactat gtcagggggc ataactgggt ttttggccat ggcatgtgta agctcctctc aggggtttat cacacagctt tgtacacgga gatcttttc ataactctgc tgacaatcga caggtacctg gccattgtcc atgtgtgtt tgcctctga gcccgagctg tcaatttgg tgtcatcacc agcatgtca cctggggcct ggcagtgtca gcagctcttc ctgaatttat cttctatgag actgaagagt tgtttgaaga gactctttgc agtgcctctt acccagagga</p>	Homo sapiens

[illegible]

Homo
sapiens

NP_005499.1

C-C
Chemokine
Receptor 4

66 738

gtccagcctg gcaagggttc acctgggctg aggcattcct cctcacacca ggcttgcttg
caggcatgag tcaagtctgat gagaactctg agcagtgctt gaatgaagtt gtaggtaata
ttgcaaggca aagactattc ccttctaacc tgaactgatg ggtttctcca gaggaattg
cagagtactg gctgatggag taaatcctga ccttttctg tggcaaatgg gccccc
MNPTDIADTT LDESISYNY IYESIPKPC KEKIKAFGEL FLPLYSIVF VFGLLGNV P
VLVLFKYKRL RSMTDVYLLN LAISDLLFV SLPFWGYAA DQWVFLGLC KMISWMLVG
FYSGIFFVNL MSIDRYLAIV HAVFSRLART LTYGVITSLA TWSVAVFASL PGFLFSTCYT
ERNHTYCKTK YSLNSTTWKV ISSLEINILG LVPLGIMLF CYSMIIRTLQ HCKNEKKKKA
VVMIFAVVVL FLGFWTPYNI VLFLETIVEL EVLQDCTFER YLDYAIQATE TIAFVHCCLN
PIIYFFLGEK FRKYILQLFK TCRGLFVLQ YCGLLQIYSA DTPSSSYTQS TMDHDLHDAL

Homo
sapiens

NM_001838

C-C
Chemokine
Receptor 7

67 741

gtgagacagg ggtagtgcga ggcggggcac agccttcttg tgtggtttta ccgcccagag A
agcgtcatgg acctggggaa accaatgaaa agcgtgctgg tgggtgctct ccttgtcatt
ttccaggat gctgtgtgca agatgaggtc acggacgatt acatcgga caacaccaca
gtggactaca ctttgttgc gctttgtgc tccaagaagg acgtgcggaa ctttaagcc
tggttctctc ctatcatgta ctccatcatt tggttctggt gctactctgg caatgggctg
gtggtgttga cctatatcta ttcaagagg ctcaagacca tgaccgatac ctacctgtc
aacctggcgg tggcagacat cctcttctc ctgaccttc ccttctgggc ctacagcgg
gccaagtctt ggtcttctg tgtccacttt tgaagctca tcttgccat ctacaagatg
agcttcttca tgggcatgct cctacttctt tgcacagca ttgaccgcta cgtggccatc
gtccaggctg tctcagctca ccgccaccgt gcccgctcc tctcatcag caagtgtgct
tgtgtgggca tctggatact agccacagtg cctctccatc cagagctcct gtacagtgc
ctccagagga gcagcagtg gcaagcagtg cagatgctct tcatcacaga gcatgtggag
gcctttatca ccatccaggt ggcacagatg gtgatcggct tcttggtccc cctgctggcc
atgagcttct gttacctgt catcatccg accctgctc tcatagtctt ccagtgtccc
aacaaggcca tcaagtgat catcgtctg tctgtgtct tcatagtctt ccagtgtccc
tacaatgggg tggctctgg ccagacggtg gccaaacttca acatcacag tagcacctgt
gagctcagta agcaactcaa catgcctac gacgtcacct acagcctggc ctgctgctgc
tgtgctgca acccttctt gtacgcttc atggcgctca agtccgcaa cgtatctctc
aagctcttca agaacctggg ctgctcagc cagagcagc tccggcagtg gtcttctgt
cggcacatcc ggcgtctct catgagtgtg gaggcgaga ccaccaccac ctctctccca
taggcgactc tctgctctg actagaggga cctctccag ggtccctggg tgggggatag
ggagcagatg caatgactca ggacatcccc cgcacaaaag ctgctcaggg aaagcagct
ctccctcag agtgaagcc ctgctccaga agttagctt acccaatcc cagctacctc
aaccatgcc gaaaagaca gggctgataa gctaacacca gacagacaa actgggaaac
agaggtatt gtccctaaa ccaaaaactg aaagtgaag tccagaaact gtccacact
gctggagtga aggggccaag gaggtgagt gcaaggggcg tggagtggc ctgaagagtc
ctctgaatga acctctggc ctccacaga ctcaaatgct cagaccagct ctccgaaaa
ccaggcctta tctccaagac cagagatagt ggggagactt cttggcttgg tgaggaaaaag
cggacatcag ctggtcaaac aaactctctg aacctctcc tccatcgtt tctcactgt
cctccaagcc agcgggaatg gacgtgcca cgcggccta aaagcacact catccctca
cttgccgcgt cgcctccca ggcctcaac aggggagagt gtggtgttct ctgcaggcca

68	741	C-C Chemokine Receptor 7	NP_001829.1	<p> ggccagctgc ctccgcgtga tcaagccac actctgggt ccagagtggg gatgacatgc actcagctct tggctccact gggatggag gagaggacaa gggaaatgtc agggcgggg agggtagacag tggccgcccc aggccacgag cttgtcttt gtctttgtc acagggaactg aaaaacctc ctcatgttct gcttcgatt cgttaagaga gcaacatttt acccacacac agataaagt ttcccttgag gaacaacag ctttaaa MDLGKPMKSV LVALLVIFQ VCLQDEVD DYIGNTTVD YTLFESLCSK KDVRNFKAWF P LPIMYSIICE VGLLGNGLV ITYIFKRLK TMTDTYLLN AVADILFLT LPFWAYSAAK SWFVGVHECK LIFALYKMSF FSGMLLLCI SIDRYVAIVQ AVSAHRHRAR VLLISKLSCV GIWILATVLS IPELLYSDLQ RRSSEQMRC SLITEHVEAF ITIQVAQWVI GFLVPLLLMS FCYLVIIRTL LQARNFERNK AIKVIHAVV VFIVFQLPYN GVLQAQTVAN FNITSSTCEL SKQLNIAYDV TYSILACVRCC VNPFLYAFIG VKFRNDLFKL FKDLGCLSQE QLRQWSSCRH IRRSMSVEA ETTTFESP </p>	Homo sapiens
69	742	C-C Chemokine Receptor 8	AI733823	<p> TTTAAATTAA AAAACTTTAT TGGATAGCA TGTTAGCAGC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAAACAAGTT TAGCATGAAG GATGCCATAT GCTGTGGCCA ACAACTAGAA CAGCGTGACT AAAGACACAG TTCTGAAATGT CCAGCACAAAC CTCTGGCCCTG CAACTATGTT CAGTGATGAT GATAACAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAAATGATGT CTGACCTCCT TATATATGTA AAAAATATAC CTTCAGAGTC CGTCAGTAAG CTGGAAGAAG TGGATGTTGA AGTTTTTAC ATCGATGATG GGTCTCCAGT TGTTCATCAA CCCATGGTGA AATAGCTGAA CGGTTCTGAA TCAAGAGTGA TCCTAATAGT GAAGACATTA ACATTGCAGA AAAAGTGCCT ACAGATTATA TGGTGAATAT ACGTGATGGG CTTCTTGAAG GACTAGAGCA GTGTGTATTC AAAACAGAAC AAGAAATCAC GTCAGTTTAT TGCCAAATAT GCTGTGGCCA ACACCTTAGAA CACAATGACT GGAGACACAG TTGTGCGTGC A CTGSCACAAC CTCCAGCCTG TGCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT TGAAGGATTT TGATATATCA GTGAAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAATCCAT CAATAAGCTG AAGAATAG ATATCAAAGA ATATTTTAAAC ATCATTAATG AGGCTCCAGT TATTCATTCA TTGACCAATG GTAATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCTATAA ATGACACAGT GAAAA </p>	Homo sapiens
70	742	C-C Chemokine Receptor 8	LG6770	<p> ctccagagag gctgctgctc attgagctgc actcacatga ggatacacagac ttgtgaaga A aggaattggc aacactgaaa cctccagaa aaaggctgtc actaagggtcc cgctgccttg atggattata cactgacct cagtgtaga acagtgacct actactacta cctgatatac ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagttgct ccttgctgtc ttttattgcc tctgtttgt attcagtctt ctgggaaaca gctgggtcat cctgggtcctt gtggtctgca agaagctgag gagcatcaca gctgtatacc tcttgaacct ggcctgtctt gacctgctt ttgtctctc ctcccttt cagacctact abctgctgga ccagtgggtg tttgggactg taatgtgcaa agtgggtgct ggcttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtggac aggtacctgg ctgtgtgtcca tgcctgtgtat gccctaaaag tgaggacgat caggatgggc acaactgtgt gctggcagat atggctaacc gccattatgg ctacctccc attgctagt ttttaccagg tggcctctga agatgggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttcacctatc ttatgttctg ctacattaaa </p>	Homo sapiens
71	742	C-C Chemokine Receptor 8	NM_005201		Homo sapiens

72	C-C Chemokine Receptor 8	NP_005192.1	742	<p>atcctgcacc agctgaagag gtgtcaaaac cacaacaaga ccaaggccat caggttggtg</p> <p>ctcattgtgg tcattgcac ttacttttc tgggtcccat tcaacgtggt tcttttcttc</p> <p>acttccttgc acagtatgca catcttggat ggatgtagca taagccaaca gctgacttat</p> <p>gccaccatg tcacagaaat catttccctt actcactgct gtgtgaacc tgttatctat</p> <p>gcttttggg gggagaagt caagaacac ctctcagaaa tatttcagaa agtttgcagc</p> <p>caaatcttca actacctagg aagacaaatg cctagggaga gctgtgaaaa gtcatcatcc</p> <p>tgccagcagc actcctccc ttctccagc gtagactaca ttttgtgagg atcaatgaag</p> <p>actaaatata aaaaacattt tcttgaatgg catgctagta gcagtgcagc aaggtgtggg</p> <p>tgtgaaaggt ttocaaaaaa agttcagcat gaaggatgcc atatatgttg ttgccaacac</p> <p>ttaaaaacaca atgactggag acatagtgtg aactttaag gattctgtat gccaaagtga</p> <p>tgtgtttatt gatgatgtg aacaagtgtt cttcatatgc aaaaataatg cttcagagac</p> <p>aaaaaagat gctgcacctc agttttgaca tcaatgatga ggctccagtt gtctatgcac</p> <p>ctggaagaag tggatattga agttttgac tgaatcaagg tgattgtgat tatagtgaca</p> <p>tgactgatgg tgaatggct ggagtgttc aagtgcctgt agatgacatg gtgaaaaat</p> <p>atgaagatga tgcattaat actgcataaa acgcatlcat aacagaacaa gaaattatct</p> <p>ttgacaggct tatggaagga ctacagcagc agcatttcat aacagaacaa gaaattatct</p> <p>cagcttataa aatcaaacag agacttctag acaaaaaacca ttgttgatga ggcagatgcc</p> <p>tctagaagag acgtttaaaa gccatcaaac acaatgcctc atcttccctg gaggacccac</p> <p>ttctgatcc ctcaactgtg tctgatgttt ctctctcatg agaaaaataa aataaaaaat</p> <p>aaaaaaatat atattgttat gtaactacag gaaaaaataa aaaaatatat agtggacagt</p> <p>aactttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttattgatgtg</p> <p>ttgttattaa cagtgatac aggtattctg ctgatgctac tgctgcctag ttaccatgaa</p> <p>cacgtttttt cactattaat ggtgcgtcat attttttact tttaagtact tacgtgtgag</p> <p>taagtgaag aaaatgattg cttatcagta gtaacaaatg ttactcaat atctgaatca</p> <p>cttgatttca gaaccatttc agctgtttca ccatcagtc aatgaataaca gctcattga</p> <p>tgtaaaaaac ttcaatatcc acttctttca gctactgtga gactctggaa gtatactttt</p> <p>tgcatatgta aggaagtcag atttttttt</p>	Homo sapiens
73	CXC Chemokine Receptor 3	NM_001504	752	<p>MDYTIQLSVT TVTDYYPDI FSPCDALII QTNGLKLLAV FYCLLFVFSL LGNSLVILVL P</p> <p>VVCKKLRSIT DVLNLNLS DLLFVSFPF QTYLLDQWV FGTVNCKVVS GFYIGFYSS</p> <p>MEFITLMSVD RYLAHVAVY ALKVRTIRMG TTLCLAVWLT ATMATIPLLV FYQVASEDGV</p> <p>LQCYSFYNQO TLWKIFTNF KMNILGLLIP FTTFMFCYIK ILHQLKRCQN HNKTKAIRLV</p> <p>LIVVIASLLF WVPENVLFL TSLHSMHILD GCSISQQLTY ATHVTEIISF THCCVNPVIY</p> <p>AFVGEKFKKH LSEIFQKSCS QIFNYLGRQM PRESECKSSS CQHSRRSSS VDYL</p> <p>ccaaccacaa gcacaaagc agaggggcag gcagcacacc acccagcagc cagagcacca A</p> <p>gccagcccat ggtccttgag gtgagtgcac accaagtgc aaatgacgcc gaggttgccg</p> <p>ccctccttga gaactcagc tcttctatg actatggaga aaacagagagt gactcgtgct</p> <p>gtactctccc gccctgcca caggacttca gcttgaactt cgaccgggcc ttcttgccag</p> <p>ccctctacag cctcctcttt ctgctggggc tgctggggcaa cggcgccggtg gcagccgtgc</p> <p>tgctgagccg gcggacagcc ctgagcagca ccgacacctt ctgctccac ctactgttag</p> <p>cagacacgct gctggtgctg acactgccg cctgggaggt ggacgtgccc gtccagtggg</p> <p>tctttggctc tggcctctgc aaagtggcag tggcctctt caacatcaac ttctacgcag</p>	Homo sapiens

74	752	CXC Chemokine Receptor 3	NP_001495.1	<p>gagccctct gctggcctgc atcagctttg accgctacct gaacatagtt catgccaccc agctctaccg ccggggggccc ccggcccgcg tgacctcacc ctgcctggct gtctgggggc tctgctgct tttcgccctc ccagacttca tcttctctgc ggccaccac gagagcgcc tcaacgccac ccaactgcaa tacaactcc cagagtggt ccgacaggt ctgcgggtgc tgagctggt ggtggtgttt ctgctgccc tgcgtactgc ggctactgc tatgccaca tcttgccct gctgctggtt tccaggggc agcgcgctt gcgggcoatg cggctggtg tggtgctgt ggtggccttt gccctctgct ggaccccta tcaactggtg gtgctggtg acatcctcat ggacctggc gcttggccc gcaactgtg ccgagaaagc aggtagagc tgcccaagtc ggtcacctca ggctgggct acatgacctg ctgcctcaac ccgtgctct atgctttgt aggggtcaag ttccgggagc ggatgtggat gctgctcttg cgcctgggt gcccacaaca gagaggctc cagaggcagc catcgtcttc ccgccgggt tcatcctggt ctgagacctc agaggcctc tactgggct tgtgagcgc gaatccggc tcccccttcg cccaagctc gacttcccgc cattccagc tctccctcc ctctgcggc tctgctctc cccaatatc tgcctcccg gactcactg cagcccccag accaccaggt ctcccgggaa gccacctcc cagctctgag gactgcacca ttgctgctcc ttactgcca agcccatcc tgccgcccga ggtggctgccc tggagcccca ctgccccttc catttggaac ctaaaacttc atcttcccca agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca cagccaggc ctccagctca gcagtactg tggccatggt ccccaagacc tctatatgtg ctcttttatt tttatgtcta aaatcctgct taaaactttt caataaaca gctcgtcagg accaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa MVFLEVDHQV LNDAEVAALL ENFSSSYDYG ENESDSCCTS PPCQDFSLN FDRFLPALY P SLLELLGLL NGVAVALLS RRTALSSTD FLHLIAVADT LLVTLPLWA VDAAVQWVFG SGLCKVAGAL FNINFYAGAL LLACISFDY LNIVHATQLY RRGPPARVTL TCLAWGLCL LFALPDFIFL SAHDERLNA THQYNFPQV GRTALRVQL VAGFLPLLV MAYCYAHILA VLLVSRGQRR LRAMRLVVV VVAFALCWT P YHLVVLVDIL MDLGALARNC GRESRVDVAK SVTSLGLYMH CCLNPLLYAF VGVKFRERMW MLLRLGCPN QRLQRPSS SRRDSSWSET SEASYSGL</p>	Homo sapiens
75	753	CXC Chemokine Receptor 4	NM_003467	<p>gtttgttggc tgcggcagca ggtagcaaa ggcgcgcag ggcctgagtg ctccagtagc A caccgcatct ggagaaccag cgtgtaccat ggaggggatc agtatataca ctccagataa ctacaccag gaaatgggt caggggacta tgactccatg aaggaacctt gtttccgtga agaaaatgct aattcaata aaatcttctt gccaccatc tactccatca tcttctaac tgccattgtg ggcaatggat tggctatcct tggctatggt taccagaaga aactgagaag catgacggac aagtacaggc tgcacctgtc agtggccgag ctctcttttg tcatcacgt tcccttctgg ccagtgtgat ccgtggcaa ctggtacttt gggaacttcc tatgcaaggc agtcctatgc atctacacag tcaacctta cagcagtgtc ctatcctggt ccttcatcag tctggaccgc tacttgcca tgcctcacgc cacaacagt cagaggccaa ggaagctgtt ggtgaaaaa gttgtctatg ttggcgtctg gatccctgcc ctctgctga ctattcccc cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gttctatccc caatgacttg tgggtggttg tgtccagtt tccagcatc atggttgccc ttatctgccc tggtattgtc atctgtgctt gctattgcat tatcatctcc aagctgtcac actccaaggg ccaccagaag cgcaaggccc tcaagaccac agtcatcttc atctggcctt tcttgcctg</p>	Homo sapiens

76	753	CXC Chemokine Receptor 4	NP_003458.1	<p> tgggtgctt tactacattg ggatcagcat cgactccttc atctccttg aaatcatcaa gcaaggggtg gagtttgaga acactgtgca caagtggaatt tccatcacgg aggccttagc ttctctccac tgttgtctga acccatcct ctatgcttcc cttggagcca aatttaaaac ctctgcccag cagcactca cctctgtgag cagagggtcc agcctcaaga tctctccaa aggaaagcga ggtggacatt catctgttcc cactgagtc gagtcttcaa gtttccactc cagctaacac agatgtaaaa gacttttttt tatacagtaa ataacitttt ttttaagttac acattttca gatataaaag actgaccaat atgtacagt ttttattgct tgttggattt ttgtcttggt tttctttagt ttttgtgaag ttttaattgac ttatttatat aaattttttt tgtttcatat tgatgtgtgt ctaggcagga cctgtggcca agttcttagt tgtgtatgt ctcgtggtag gactgtagaa aagggaactg aacattccag agcgtgtagt gaatcacgta aagctagaaa tgatccccag ctgtttatgc atagataatc tctccattcc cgtggaaact tttctctgtt cttgaagact gatttgcgt tagaagatgg cacttataac caaagcccaa agtggtatag aaatgctggt ttttcagttt tcaggagtgg gttgatttca gcacctacag tgtacagtct tgtattaagt tgttaataaa agtacctagt aaacttactt agtgttatg MEGISTYTSN NYTEEMSGSD YDSMKPECFR ENANFNKIF LPTIYSIIFL TGIYGNGLVI P LVMGYQKKLR SMTDKYRLHL SVADLLFVIT LPFWAVDAVA NWYFGNFIK AVHVIYTVNL YSSVLIILAFI SLDRYLAIVH ATNSQRPRKL LAEKVWYVGV WIPALLTIP DFIFANVSEA DDRYICDRFY PNDLWVWFQ FQIMVGLIL PGIVILSCYC IISKLSHSK GHQKRKALKT TVILLIAFFA CWLPYYIGIS IDSILLLEII KQCEFFENTV HKWISITEAL AFFHCCINPI LYAFUGAKFK TSAQHALLTSV SRGSSLIKLS KGRGEGHSSV STSESSEFHS SS </p>	Homo sapiens
77	755	Complement Component 3a Receptor 1	NM_004054	<p> atggggtctt tctctgctga gaccaattca actgacctac tctcacagcc atggaatgag A ccccagtaa ttctctccat ggtcattctc agccttactt ttttactggg atbgccaggc aatgggctgg tgtgtgggt ggctggcctg aagatgcagc ggacagtgaa cacaatttgg tctctccacc tcaccttggc ggacctctc tctgtcctct ccttgccctt cctgctggct cacttggctc tccagggaca gtggccctac ggaggttcc tatgcaagct catccctcc atcatgttcc tcaacatgtt tgccagtgtc tctctgctta tggccattag cctggatcgc tgtcttgtgg tattcaagcc aatctggtgt cagaatcatc gcaatgtagg gatggcctgc tctatctgtg gatgtatctg ggtggtggct ttgtgatgt gcaatcctgt gttcgtgtac cgggaaatct tcactacaga caaccataat agatgtggct acaaatggg tctctccagc tcattagatt atccagactt ttatggagat ccactagaaa acaggtctct tgaataacatt gttcagccgc ctggagaaat gaatgatagg ttagatcctt cctcttcca acaaatgat catecttggc cagtcctccac tgtcttccaa cctcaaacat ttcaagacc tctgcagat tcactcccta ggggttctgc taggttaaca agtcaaaatc tgaattctaa tgaatttaaa cctgctgatg tgggtctacc taaaatcccc agtgggttcc tttatgaaga tcacgaaacc agccactgg ataactctga tgccttcttc tctactcatt taaagctgtt ccttagcgct tctagcaatt cctctacga gctgagcta ccaaggtt tccaggatta ttacaattta ggccaattca cagatgacga tcaatggcca acaccctcg tggcaataac gatcactagg ctagtgttgg gtttctctgt gccctctgtt atcatgatag cctgttacag cttcattgtc ttccgaatgc aaagggcccg ctctccaaag tctcagagca aaaccttctg agtggccgtg gtgggtgtgg ctgtcttctt tgtctgttgg actccatacc acatttttgg agtctgtca ttgcttactg acccagaaac tcccttgggg aaaaacttga tgtcctggga tcatgtatgc </p>	Homo sapiens

[illegible]

80	758	Complement Component 5a Receptor 1	NP_001727.1	<p>ccgtctgtac taaaaataca aaaaattaac tgggcatggt agtgggtgcc tgtaatcccc gctacttggg aggtgaggt gggagaattg ctcgaaacctt ggaggtggag gttgtgtga gccatgatcg caccactgca ctctagctcg ggtgaccgag ggaggtctctg tctcaaaagc aaagcaaaaa caaaacaaa aacaccta aaacctcag tttgtttgtt actttgtttt taaattatgc tttctatttt gagatcattg caaactcaac caaattgtaa gtaatgatac agagggatct tgtgtaccct tcaccacgct tccccaatg gcaacatctt gcaaaactac aatgtagtct cataaccagg atattgacat tgatacaggt aagatacagg acatctcat caccacagg atccccagg tggccacttc cctccacccc cacaccccag ccgtgtccct aacccctggc aaccaggaaat ccactctcca tttctataat gttgtcattt caagaatggt attcaatgga atcatatagt atgtaaccctg ttttgagcct aaaaaaaa gtatacatga ctttaatgag gaaaaataaa atgaatatgt aaaaaaaa ctttagag</p>	Homo sapiens
				<p>MNSFNYYTPD YGHYDDKDTL DLTVPDKTS NTLRVPDILA LVIFAVFLV GVLGNALVWV P VTAFEAERTI NAIWFLNLA VADFLSCLALP ILFTSIVQHH HWPFGGAACS ILPSLILLNM YASILLIATI SADRFLLVFK PIWCQNERGA GLAWIACAVA WGLALLLTIP SFLYRVVREE YFPPKVLGV DYSHDKRRER AVAIVRLVLG FLWPLLLTLTI CYTFILLRTW SRRATRSTKT LKVVAVAVAS FFIFWLPYQV TGIMMSFLEP SSPTFLLLNK LDSLCVSEAY INCCINPIIY VVAGQGFQGR LRKSLPSLLR NVLTEESVVR ESKSFRSTV DTMAQKTQAV</p>	
81	767	Calcitonin Receptor- like Receptor	NM_005795	<p>gcacgaggga acaacctctc tctctscagc agagagtgtc acctcctgct ttaggacctt A caagctctgc taactgaatc tcatctaat tgcaggatca cttgcacaaag ctttccactct ttcccacctt gcttgtgggt aaatctcttc tgcggaatct cagaaagtaa agttccatcc tgagaatatt tcacaaagaa tttccttaag agctggactg ggtcttgacc cctggaaattt aagaaattct taagacaat gtcaaatatg atccaagaga aaatgtgatt tgagtcgga gacaattgtg catatcgtct aataataaaa acccatacta gcctatagaa acaaatattt gaataataaa aaccatact agcctataga aaacaatatt tgaagattg ctaccactaa aaagaaaact actacaactt gacaagactg ctgcaaaactt caattgggtca ccacaaactg acaagggttg tataaaaca gattgctaca acttctagtt tatgtttatc agcatatttc atttgggctt aatgatggag aaaaagtga cctgtattt tctggttctc ttgccttttt ttatgattct tgttacagca gaattagaag agagtcctga ggactcaatt cagttgggag ttactagaaa taaatcatg acagctcaat atgaatgta ccaaaagatt atgcaagacc ccattcaaca agcagaaggc gtttactgca acagaacctg ggatggatgg cttctgctgga acgatgttg agcaggaaat gaatcaatgc agctctgcc tgattacttt caggactttg atccatcaga aaagttaaca aagatctgtg accaagatgg aaactgggtt agacatccag cagcaacacag aacatggaca aattataccc agtgaatgt taacaccccac gagaaagtga agactgcact aaattgtttt tactgacca taattggaca cggattgtct attgcatcac tgcttatctc gcttggcata tctttttatt tcaagagcct aagttgcca aggattacct tacacaaaaa tctgttcttc tcattgtttt gtaactctgt tgaacaatc attcacctca ctgcagtggc caacaaccag gccttagtag ccacaaatcc tgttagttgc aaagtgtccc agttcattca tcttaacctg atgggctgta attacttttg gatgctctgt gaaggcatatt acctacacac actcattgtg gtggccgtgt ttgcagagaa gcaacattta atgtgggtatt atcttcttgg ctggggattt ccaatgattc cgtcttgtat acatgccatt gctagaagct tatattacaa tgacaattgc tggatcagtt ctgatacca tctctctac attatccatg</p>	Homo sapiens

82	767	Calcitonin Receptor- like Receptor	NP_005786.1	gcccgaattg tgctgcttta ctggtgaatc ttttttctt gttaaattt gtacgcgttc tcatcaccaa gtaaaagt acacaccaag cggaaatcaa tctgtacatg aaagctgtga gagctactct tatcttggtg ccattgcttg gcattgaatt tgtgctgatt ccatggcgac ctgaaggaaa gattgcagag gaggtatag actacatcat gcacatcctt atgcacttcc agggctcttt ggtctctacc atttctgct tctttaatgg agaggttcaa gcaattctga gaagaaactg gaatcaatc aaaaatccat ttggaacag cttttccaac tcagaagctc ttcgtagtgc gtcttacaca gtgtcaacaa tcagttagg tccaggttat agtcatgact gtcctagtga acacttaaat ggaataagca tccatgatat tgaaaatgtt ctcttaaac cagaaaattt atataattga aaatagaagg atggttctct cactgtttgg tgccttctct aactcaagga ctgggaccca tgactctgta gccagaagac ttcaatatta atgactttg gggaatgtca taaagaagag ccttcacatg aaattagtag tgtgttgata agagtgaac atccagctct atgtgggaaa aaagaaatcc tggtttgtaa tgttctcag taaatactcc cactatgctt gatgtgacgc tactaacctg acatcaccaa gtgtggaatt ggagaaaaac acaatcaact ttctgagct ggtgtaagcc agtccagca caccattgat gaattcaaac aaatggctgt aaaactaac atacatgttg ggcattgatt tacccttatt cscaccaaga gacctagcta aggtctataa acatgaaggg aaaattagct tttagtttta aaactcttta tcccatcttg attggggcag ttgacttttt ttttttccca gagtccgta gtcccttttg taactaccct ctcaaatgga caataccaga agtgaattat cctgtctggc tttctttct atctgtggc ataccattg tggaaactgg atgaacagga tgtataatat gcaatcttac ttctatatca ttaggaaaac atcttagttg atgtacaaa acacttctc aacctcttc tgtcttacca aacagtggga ggaattctct agctgtaaat ataaattttg ccttccatt tctactgtat aaacaaatta gcaatcattt tatataaaga aaatcaatga aggatttctt atcttcttgg aattttgtaa aaagaaattg tgaaaaatga gctgtgaaat actccattat tttattttat agtctcaaat caatacata caactatgt aattttttaa gcaaatatat aatgcaacaa tgtgtgtatg ttaatatctg atactgtatc tgggctgatt ttttaataa aatagagtct ggaatgct	Homo sapiens
83	832	Cannabinoid Receptor 1	NM_001840	MEKCTLYFL VLPFFMILV TAELESPED SIQLGVTRNK IMPAQYECYQ KIMQDPIQQA P EGVYCNRTWD GWLQNDVAA GTESMQLCPD YFQDFDPSEK VTKICDDGN WFRHPASNRT WTNTYQCNV THEKVKALN LFYLTIIHG LSIASLLISL GIFFYFKSL SQRITLHKNL FFSFVCSNV TIHILTAVAN NQALVATNPV SCVVSQFIHL YLMGCNYFWM LCEGIYLLHTL IVVAVFAEKQ HLMWYFLLGW GFPLIPACIH AIARSLYND NCWISSDTHL LYIHGPICA ALLVNLFFLL NIVRVLTIKL KVTHQAESNL YMKAVRATLI LVPILGIEFV LIWRPEGKI AEEVYDYIMH ILMHFQGLLV STIFCFNGE VQAILRRWN QYKIQFGNSF SNSEALRSAS YTSTISDGP GYSHDCPSEH LNKSIHDIE NVLLKPENLY N ggggactacg gagagctctg caggagccg aggcccccgc ccgggcccaag ggagcttctg A tcccgaggac cagggatgc gaaggattg cccctgtgg gtcactttct cagtcatctt gagctcagcc taatcaaga ctgaggttat gaagtcgac ctagatggcc ttgcagatac cacctccgc accatcacca ctgacctct ctgagtgggc tcaatgaca ttcagtacga agacatcaa ggtgacatgg catccaaatt aggtacttcc ccagagaaat tccctttaac ttcctttagg ggaagtccct tccaagagaa gatgactgcg ggagacaacc ccagctagt	Homo sapiens

84	Cannabinoid Receptor 1	NP_001831.1	<p> cccagcagac caggtgaaca ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtggggagaa cttcatggac atagagtgtt tcatggtcct gaacccacgc cagcagctgg ccattgcagt cctgtccctc acgctgggca ccttcacggt ccttgagaaac ctctctggtgc tgtgcgtcat cctccactcc cgcagcctcc gctgcaggcc ttcttaccac ttcatcgga gctggcggtt ggcagacctt ctggggagtg tcatttttgt ctacagcttc attgacttcc acgtgttcca cgcgaagat agccgcaacg tgtttcttgt caaaactgggt ggggtcacgg cctccttcac tgcctccgtg ggcagcctgt tccitcacagc catgcacagg tacatatcca ttcacaggcc cctggcctat aagaggattg tcaccaggcc caaggccgtg gtggcggtttt gctgatgtg gaccatagcc attgtgatcg ccgtgctgcc tctcctgggc tggaaactgc agaaactgca atctgtttgc tcagacattt tcccacacat tgatgaaacc tacttgatgt tctggatcgg ggtcaccagc gtactgcttc tgttcacgt gtatgcgtac atgtatatc tctggaaggc tcacagccac gccgtccgca tgattcagcg tggcacccag aagagcatca tcatccacac gctcagagat ggaaggtac aggtgacccg gccagaccaa gccgcgatg acattaggtt agccaagacc ctggtcctga tccgtggtgt gttgatcatc tctgtgggccc ctctgcttgc aatcatggtg tatgatgtct ttgggaagat gaacaaagctc attaagacgg tgtttgcatt ctgcagtatg ctctgcctgc tgaactccac cgtgaacccc atcatctatg ctctgaggag taaggacctg cgacacgctt tccggagcat gtttccctct tgtgaaggca ctgctgcagcc tctgataaac agcatggggg actcggactg ctgcacaaaa cagcaaaaa atgcagccag tgttcacagg gccgcagaaa gctgcacaa gagcacggtc aagattgcca aggtaacctt gtctgtgtcc acagacacgt ctgccgaggc tctgtgagcc tgatgcctcc ctggcagcac agaaaaagaa ttttttttt taagctcaaa atctagaaga gtctattgtc tcttgggta tattttttta actttaccat gctcaaatgaa aaggtgattg ccacatgca cttatttgc tagtttccgt ttgggctaata ctccgggggt tctgaggaaa ctttt </p>	Homo sapiens
85	Cannabinoid Receptor 2	NM_001841	<p> MKSILDGLAD TFRFTITD LYGSNDIQY EDIKGDMASK LGYFPQKFPL TSFRGSPFQE P KMTAGDNPQL VPADQVNITE FYNKSLSSF ENENIQCE NEMDIECFMV LNPSQQLAIA VLSLTGTFT VLENLLVLCV ILHSRSLRCR PSYHFIGSLA VADLLGSVIF VYSFIDFHV HRKDSRNVFL FKLGGVTASF TASVGSFLT AIDRYISIH PLAYKRIVTR PKAVVAFCLM WTIAIVIAVL PLLGNCEKL QSVCSDFPH IDETYLMFWI GVTSVLLLEI VYAYMYILWK AHSHAVRMIO RGTQKSIIH TSEDGVQVT RPDQARMDIR LAKTLVLILV VLLICWGPLL AJMVYDVFGK MNKLIKTVFA FCSMLCLINS TVNPIIYALR SKDLRHAFRS MFPSCEGTAQ PLDMSMGDS D CLHKHANNA SVRAAESCI KSTVKIAKVT MSVSTDTSAE AL caggtcctgg gagaggacag aaaaactg gactcctcag cccccggcag ctcccagtc A ccagccacc acaacacaac ccaaaagcct ctagacaagc tcaagtggat ctgaaggcc caccccatg aggaatgctg ggtgacagag atagccaatg gctccaagga tggcttggat tccaacctta tgaaggatta catgatcctg agtggctccc agaagacagc tgttgcctg ttgtgacac tcttgggctt gctaaagtgc tcatcctgt tcaattggcag ctggctggg ctgtcctccc accaactccg ccggaagccc tcatcctgt tcaattggcag ctggctggg gctgacttcc tggccagtgt ggtctttgca tgcagctttg tgaatttcca tgttttccat ggtgtggatt ccaaggctgt cttctgtctg aagattggca gctgactat gacattcaca gcctctgtgg tagcctcct gctgaccgcc attgaccgat acctctgctt gcgtatcca </p>	Homo sapiens

86	833	Cannabinoid Receptor 2	NP_001832.1	<p>ccttctctaca aagctctgtct caccctgtgga agggcactgg tgaccctggg catcatgtgg gtcctctcag cactagtctc ctacctgccc ctcatgggat ggacttgctg tcccaggccc tgctctgagc ttttccact gatcccaat gactacctgc tgactggct cctgttctac gccttctct tttccggaat catctacac tatgggcatg ttctctgga ggcctatcag catgtggcca gcttctctgg ccaccaggac aggcaggtgc caggaatggc ccgaatagg ctgagatgga ggttgggcaa gacctaggg ctagtgttg ctgtgctct catctgttg ttccagtgcc tggccctcat gggccacagc ctggccacta cgctcagtga ccaggtcaag aaggcccttg ctttctgtc catgtgtgc ctcatcaact ccatgggtcaa cctgtctac tatgctctac ggagtggaga gatccgctcc tctgcccac actgcccggc tcaactggaag aagtgtgga ggggaccttg gtcagaggca aaagaagaag ccccgagatc ctcagtcacc gagacagagg ctgatggga aatcactccg tggccagatt ccagagatct agacctctct gattgtgat gaggcctctt cccaatttaa acaactcaag tcagaaatca gttcactccc tggaagagag agaggggtct tggcactctc ttcttactta aaccagtcct agacacctag acacggacct cttttgtctg atgagtgttg ggaactgact ctggaagaca gcctggcctt gcccacctgc acacagtctg ttggataggt agggccacga ggagtagcca ggtaggcgag acacaaaaag gctggggaca ggttcagtag aagtcaggac aggttctcat cctgcatact ccagagacca ccaggagcca aagcgagcct ccaggcccag caatgaggga cttgggagaa atctgagaag aatgggttgt tctcttgga agtcagggtg tcagatggga tggacatcca ggtcttctct ctgcttaatt gtcaaggcct ccttggtctt ggagctatga aaggccccac tttcaagtca ccttgccac tgaggaccga ggactatgct atgatgagga ttaagggtgtt gacttgccct tttcagagat aaatgacaag ccttca</p>	Homo sapiens
87	922	Leukocyte Antigen CD97	NM_001784	<p>SHQLRRKPSY LFISGLAGD FLASVFEACS FVNPHVFHG DSKAVFLLKI GSVTMTFTAS VGLSLLTAID RYLCIRYPPS YKALLTRGRA LVTIGIMWVL SAIVSYLPLM GTTCCPRPCS ELFPLIPNDY LLSWLLFI AF LFSGIITYYG HVLWKAHQHV ASLSGHQDRQ VPGWARMRLD VRLAKTLGLV LAVLLICWFP VLALMAHSLA TTLSDQVKA FAFCSMLCLI NSMVNPVIYA LRSGEIRSSA HHCLAHWKKC VRGLGSEAKE RAPRSSVTET EADGKITPWP DSRDLDSLDC</p>	Homo sapiens

88	922	Leukocyte Antigen CD97	NP_001775.1	<p> cactacatt tccccttoga acacagagct gacccctgat atccaggagc gggggggacaa gaagtcact atgggtcaga gcagcgacg catgaagctg aattgggctg tggcagctgg agccaggat ccaggccccg ccgtggcggg catcctctcc atccagaaca tgacgacatt gtgggccaat gctccttga acctgcattc caagaagcaa gccgaactgg aggagatata tgaaagcagc atccgtgtg tocaactcag accctctctt gccgtcaact ccattctttt gagccacaac aacaccaagg aactcaactc cccctctctt ttgcctttct cccaccttga gtcctccgat ggggagcg gaaagaccc tccctgccaag gacgtgatg ctggggccacg gcaggagctg ctctgtgctt tctggaagag tgacagcgac aggggagggc actggggccac cgaggtctgc caggtgctgg gcagcaagaa cggcagcacc acctgccaat gcagccacct gagcagcttt acgatacctta tggctcatta tgacgtggag gactggaagc tgacctgat caccagggtg ggaactggcg tgtcactctt ctgctgctg ctgtgcaccc tcaacttctt gctgtgctgg cccatccag gctgcgcac caccatacac ctgcacctct gcacttgctt cttctgtggc tccacctct tccctggcgg catcgagaac gaaggcggc aggtggggct gcgtgcgc ctggtggcgg gctgctgca ctactgttct ctggcgcct tctgtggat gagcctcgaa ggctggagc tctactttct tbtggtgcgc gtgttccaag gccagggctt gagtaacgc tggctctgccc tgatcgcta tggcgtgccc ctgctcatcg tggcgtcttc ggctgccatc tacagcaagg gctacggcgg cccagatac tgcgtgttg actttgagca ggccttctc ttgagcttct tgggacctgt gaccttctc atttgtgca atgtgtgat ttctgtgact acogtctgga agctcactca gaagtcttct gaaatcaatc cagacatgaa gaaattaaag aagcgaggg cgctgacct caggccatc cagggcctc tccgtttggg ctgcacctgg gtctttggcc tgttcatctt cgacgatcgg agcttggtgc tgacctatgt gtttaccatc ctcaactgccc tgagggcgcc ctctctctac ctgtgcact gctgtctcaa caagaagggt cgggaagaat accggaagt ggcctgccta gttgctgggg ggagcaagta ctcagaattc acctccacca cgtctggcac tggccacaat cagaccggg cctcaggggc atcagagctc ggcataatgaa ggcgcatggt tctggacggc ccagcagctc ctgtggccac agcagctttg tacacgaaga ccatccatcc tccctctgct caccactcta ctccctccac cctccctccc tgatcccggt tggccaccag agggagtggc agctatagtc tggcaccaaa gtccaggaca ccagtgggg tggagtcgga gccactggtc ctgtgctgg ctgctctctt gctccacctt gtgaccaggg gtggggacag gggctggccc agggctgcaa tgcagcatgt tgccctggca cctgtggcca gtactcggga cagactaagg gcgcttgctc catcctggac ttttcctctc atgtctttgc tgcagaactg aagagactag gcgtggggc tcaacttccc tcttaagcta agactgatgt cagagggccc atggcgaggc ccttggggc cactgcctga ggctcacgggt acagaggcct gcctgctctg gccgggagc aggttctcac tgtgtgaaag gtttagagac ttgtgtaagt tgtttttatc tgttaaaatt tttcagtgtt gacacttaaa attaaacaca tgcatacaga aaaaaaaa a TCDDINECAT PSKVSCKKFS DCWNTEGSDY CVCSPGVEPV SGAKTFKNES ENTQDQVDEC SSGQHQCDSS TVCFNTVGSY SCRCRPGWKP RHGIPNNQKD TVCEDMTFST WTPPPGVHSQ TLSRFFDKVQ DLGRDSKTSS AEVTIQNVIK LVDELMEAPG DVEALAPPVR HLIATQLLSN LEDIMRILAK SLPKGFFTYI SPSNTELTIM IQERGDKNVT MGQSSARMKL NWAVAAGAEED PGPAVAGILS IQNMTTILAN ASLNLSKKQ AELEEIYESS IRGVQLRRLS AVNSIFLSHN </p>	Homo sapiens
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89	941	EMR1 Hormone NM_001974 Receptor	NTKELNSPIL FAFSHLESSD GEAGRDPPAK DVMPGRPRQEL LCAFWKSDSD RGGHWATEVC	Homo sapiens
			QVLGSKNGST TCQCSHLSSE TILMAHYDVE DWKLTILTRV GLALSFLCLL ICILTFLLVR	
			PIQGSRTTIH LHLICICLVG STIFLAGIEN EGGQVGLRCR IVAGLLHYCF LAAFCWMSLE	
			GLELYFLVVR VFQGGGLSTR WLCLIGYGRP LLIVGVSAAI YSKGYGRPRY CWLDFEQGFL	
			WSFLGPVTFI ILCNAVIFVT TWKLTQKES EINPDMKKLK KARALITITAI AQLFLLGCTW	
			VEGLFIFDDR SILVTVVFTI LNCLOGAFLY LHLCLLNKKV REEYRKWACL VAGGSKYSEF	
			TSTTSGTGN QTRALRASES GI	
			ctaaagtttt ttctttgaa tgacagaact acagcataat gcgtggcttc aacctgctcc A	
			ttctctgggg atgttgtgtt atgcacagct ggggaaggga cataagacc acacggaaac	
			caaacacaaa gggtaataac tglagagaca gtaccttgtg ccagcttat gccacctgca	
			ccaatacggg ggacagttac tattgcactt gcaaacaaag ctctctgtcc agcaatgggc	
			aaaatcactt caaggatcca ggaagtgcgt gaaaagatat tgatgaatgt tctcaaaagg	
			ccagccctg tggctcctaac tcactctgca aaaacctgtc agggagggtac aagtgcagct	
			gtttagatgg ttctcttctt cccactggaa atgactgggt ccagggaaag ccgggcaatt	
			ttctctgtac tgatatcaat gagtgcctca ccagcagggt ctgccctgag cattctgact	
			gtgtcaactc catgggaagc tacagttgca gctgtcaaagt tggattcacc tctagaaact	
			ccaactgtga agacgtgaat gaatgtgcag atccaagagc ttgccagag catgcaactt	
			gtaataacac tgttggaac tactcttgtt tctgcaacc aggatttgaa tccagcagtg	
			gccacttgag ttgccagggt ctcaaaagcat cgtgtgaaga tattgatgaa tgcactgaaa	
			tgtgccccat caattcaaca tgcaccaaca ctctgggag ctacttttg accctgccacc	
			ctggcttgc accaagcagt ggacagttga atttcacaga ccaaggagtg gaatgtagag	
			atattgatga gtgccgcaa gatccatcaa cctgtgtgtcc taattctatc tgcaccaatg	
			ccctgggctc ctacagctgt ggctgcattg taggctttca tcccaatcca gaaggctccc	
			agaaagatgg caacttcagc tggcacaagg ttctcttcaa atgtaaggaa gatgtgatc	
			ccgataataa gcagatccag caatgccaa agggaaccgc agtgaaccct gcataatgtct	
			ccctttgtgc acaataaat aacatcttca gcttctgga caaagtgtgt gaaaaataaaa	
			cgacgtagt ttctctgaag aatacaactg agagctttgt cctgtgtgctt aaacaaatat	
			ccatgtggac taaattcacc aggaagaga cgtctctcct gccacagtc ttctggaga	
			gtgtggaaag catgacactg gcattctttt ggaaccctc agcaaatgtc actccggctg	
			ttcggggcga atacttagac attgagagca aagtatcaa caaagaatgc agtgaagaga	
			atgtgacgtt ggacttggtg gccaaagggg ataagatgaa gctcgggtgt tccacaattg	
			aggaatctga atccacagag accactgggt tggcttttgt ctcctttgtg ggcattggaat	
			cgggttttaa tgagcgcttc ttccaagacc accaggctcc cttgaccacc tctgagatca	
			agctgaagat gaattctcga ttcgttgggg gcataatgac tggagagaag aaagacggct	
			ttctcagatcc aatcatctac actctggaga acgttcagcc aaagcagaag tttagagaggc	
			ccatctgtgt ttcttgagc actgatgtga aggttggaa agtgacatcc tttagctgtg	
			tgatcctgga agcttctgag acataacca tctgcagctg taatcagatg gcaaatcttg	
			ccgttatcat ggcgtctggg gagctcacga tggacttttc cttgtacatc attagccatg	
			taggcattat catctccttg gtgtgctcgc tcttggccat cgcaccttt ctgctgtgtc	
			gtcccatccg aaatcacac acctacctcc acctgacct ctgctgtgtgt ctctcttgg	
			cgaagactct ctctctgccc ggtatacaca agactgacaa caagacgggc tgcgccatca	

90	941	EMR1 Hormone NP_001965.1	MRGNLLLFW GCCVMHSWEG HIRPTRKPNP	KGNNCRDSTL CPAYATCTNT VDSYYCTCKQ P	Homo sapiens
		Receptor	GFLSSNGQNH FKDPGVRCCK IDECSQPQP	CGPNSSCKNL SGRYKCSCLD GFSSPTGNDW	
			VPKPGNFSC TDINECLTSR VCPHSDCVN	SMGSYSCSQ VGFISRNSTC EDVNECADPR	
			ACPEHATCNN TVGNYSFCFN PGFESSGHL	SCQGLKASCE DIDECTEMCP INSTCTNTPG	
			SYFCTCHPGF APSSGQLNFT DQVECRDID	ECRQDPSTCG PNSICTNALG SYSCGCIVGF	
			HPNPEGSKQD GNFSCQRLVF KCKEDVIPDN	KQIQCCQEGT AVKPAYVSFC AQINNIFSVL	
			DKVCENKTTV VSLKNTTESF VPVLKQISMW	TKFTKEETSS LATVFLESVE SMTLASFWKP	
			SANVTPAVRA EYLDIESKVI NKECSEENV	LDLVAKGDKM KIGCSTIEES ESTETTGVAF	
			VSFVGMEVSL NERFFQDHQA PLTSEIKLK	MNSRVVGGIM TGEKKDGFSD PIYTLENVQ	
			PKQKFERPIC VSMSTDVKGG RWTSGCVIL	EASETYTICS CNQMANLAVI MASGELTMDF	
			SLYIISHVGI IISLVCLVLA IATFLCRSI	RNHTYIHLH LCVCLLLAKT LFLAGIHKTD	
			NKTGCALIIAG FLHYLFLACF FWMLEAVIL	FLMVRNLKV NYFSSRNIMK LHICAFGYGL	
			PMLVVVISAS VQPQGYGMHN RCWLNTETGF	IWSFLGPVCT VIVINSLLLT WTLWILRQRL	
			SSVNAEVSTL KDRLLTFKA FAQLFILGCS	WVLGIFQIGP VAGVMAYLFT IINSLQGAFI	
			FLIHCLLNGQ VREYKRWIT GKTRPSSQSQ	TSRILLSSMP SASKTG	
91	965	G Protein- Coupled Receptor GPR30	ggaacacgac acctagaagt aggagtgaga	ttegtgaag ,tteccttctg aggaagaccc A	Homo sapiens
			acctctccgc ctgagagacc ggggctggcg	gtgcttgagg acctctcgg cctggacagc	
			ccacgggggc ttgggggggc tegtctgccc	ctcatggggc ggccatcggt tcccgaagcg	
			gcgagtgaat attcaaatgg ccagtagggg	gcgcactcgg aagtggggccg ccgcgatgag	
			gcagttcagc ggccccgaga gtccggggag	ggaggtttat tctccgcttg cagagactg	
			tgaatccgc aacctagagc aggagaggcg	gccttggttg gcaagaggcc accaacatct	
			ggacgggcagg taccacagaga gtgagcagct	ccacgcggga ctgtgcacgg tggccgacac	

ccgagggac gccgcgcga cgagcacgag gaggccctc gctccacgg atgcaccatg
 ccggtgtgag gagcatctgt tcttccact ctctgcagt acaaaacca accaaacca
 ccacaggtgc tctcctggg gagtctctg tctgacaaat gccaggctca ctcaaggag
 aatcacgctt ctttctaaag atggattcac ctttaaac agagctctgg gaccccttgg
 gcaaatcttg aaagctgcac ggcgcagaga catggatgtg acttcccaag cccggggcgt
 gggcctggag atgtacccag gcaccgcga gcctggggc ccaaacacca cctccccga
 gctcaacctg tcccaccgc tctggggcac ggcctgggc aatgggacag gtgagctctc
 ggagcaccag cagtacgtga tggcctgtt cctctctg cctacacca tcttctctt
 ccccatcgcc ttgtgggca acatcctgat cctggtgtg aacatcagct tccgcgagaa
 gatgaccatc cccgacctgt acttcatca cctggcgtg gcggacctca tctgggtggc
 cgactccctc attgaggtgt tcaacctgca cgagcgtac tacgacatcg cctcctctg
 cacttctatg tgcctcttcc tgcaggtcaa catgtacagc agcgtcttct tctcacctg
 gatgagcttc gaccgctaca tgcctcggc caggccatg cgtgcagcc tgtccgcac
 caagcaccac gcccggtga gctgtggcct catctggatg gcacccgtg cagccacgt
 ggtgcccttc accgcgtgc acctgcaga caccgacgag gctgcttct gtttcgga
 tgtccgggag gtgcagtgcc tgcaggtcac gctgggcttc atcgtgccct tgcctcat
 cggcctgtgc tactccctca ttgtccgggt gctggtcagg gcgcaccggc accgtgggct
 gcggcccggt cggcagaagg cgtcccgcat gatccctcgt gtggtgtggt tcttctgt
 ctgctggctg cgggagaacg tcttcatcag cgtgcacctc ctgcagcga cgcagcctg
 ggccgctccc tgcaagcagt ctttcgcga tgcaccccc ctcacgggc acattgtcaa
 cctgcgcgc ttctccaaca gctgcctaaa cccctcctc tacagcttc tcggggagac
 ettcagggac agctgaggg tgtacattga gcagaaaaa aatttgccg cctgaaccg
 ctctgtcac gctgccctga agccgtcat tccagacagc accgagcagt cggatgtgag
 gttcagcagt gccgtgtaga cagccttggc cgcataggcc cagccagggt gtgactcggg
 agctgcacac acctgggtg acacaaggca cggccacgtc atgtctctaa actgcggtca
 gatgtggctt ctggctctc gggccctgc gagggtcacg cttgcctggt caccctggg
 ctgcttagga aacctcacga ctggtcacct tgcactctc acacagaatt gctacaatcc
 caaagcgtc gccgcgag gtccaaaggc cagcgtgtgac cagcctgtca cccagctcct
 cccgccaac ctgctgccc gctgcacctg cctgcccgtg caggaaacat ttgacacgt
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 ctgagctgga cgtcgcgtg tctcctctgt gccacgggtc tgagctagct agcgcaccg
 cgaagttaaag aggaagaaga aaacatgctg cctggtgca cgcctgagcg tcttccatct
 tccaggtatg cagcaatggc gctgtcggc ctcaccaggc ccacgaggag cagcagcgt
 cggccgggag cagcaggaag gccctctgt ggaagcggc cgtctgtctc cggggtggtt
 cagtcactgc ttgttgacat caacatggca attgactca tgtggactgg gaccgtgcga
 gctgccgtgt ggttagtgc ggtgccagga caatgaaata ctcacagcag tgtggtgac
 gaatttggtt ctacagaaat aacagctggg gacaactggt gtgatgatgt aaaaacctc
 ccataaaatg taagaaagc tgatgaggtt ggtgacgttc agccttctc aataaacctg
 tcagtgcgg atcctt

NP_001496.1 MDVTSQARGV GLEMPGTAQ PAAPNTTSPE LNLSPHLLGT ALANGTGELS EHQQYVIGLF P Homo

93	978	Cholecystoki nin A Receptor	Coupled Receptor GPR30	LSCLYTIFFL PIGFVGNILI LVVNISFREK MTIPDLYFIN LAVADLILVA DSLIEVFNLIH sapiens
				ERYDYIAVIC TMSLFLQVN MYSSVFFLTW MSFDRIYALA RAMRCSLFRT KHHARLSOGL IWMASVSATL VPFTAVHLQH TDEACFCFAD VREVQWLEVT LGFIVPEFII GLCYSILIVRV LVRARHRHGL RPRRQKALRM ILAWLVFFV CWLPENVFIS VHLLQRTQPG AAPCKQSFRIH AHLPTGHIYN LAAFSNSCLN PLIYSFLGET FRDKRLRYIE QKTNLPAINR FCHAALKAVI PDSTEQSDVR FSSAV
94	978	Cholecystoki nin A Receptor	Coupled Receptor GPR30	ggaatggctg aaaaagccca cacttggaac tcactccctc cctgctcctc caccgcaggt A Homo sapiens
				tgcattctcg agacgcttcg gtcattagag gaatgagccg ggagtggagca attcaccagc tctccagcac ttgggtggaac gcagcaggca aggatggatg tgggtgacag ccttcttctg aatggaagca acatcacctc tccctgtgaa ctccggctcg aaaaatgagac gcttttctgc ttggatcagc cccgtccttc caaagagtgg cagccagcgg tgacagattct cttgtactcc ttgatatcc tgcacagcgt gctgggaac acgctgtgca tccctgtgct cagcttggaac aagcggatgc ggacgggtcac caacatcttc ctccctcctc tggctgtcag cgacctcatg ctctgtctct tctgcatgcc gtccaacctc atcccaatc tgcctcaagg tttcatcttc ggagcgccg ttgcaagac caccacctac ttcattggga cctctgtgag tgtatctacc ttaaatctgg tagccatata tctagagaga tatggtgcga ttggcaaac cttacagctc cgggtctggc agacaaaatc ccatgctttg aagtgatttg ctgctacctg gtgcctttcc tttaccatca tgactccgta cccattttat agaacttgg tgccttttac caaaaataac aacagacccg cgaatatgtg ccgttttcta ctgccaaatg atgttatgca gcagtcctcg cacacattcc tgttactcat cctcttctct attctggaa ttgtgatgat ggtggcatat ggattaatct ctttggaaat ctaccaggga ataaaattg aggttagcca gaagaagtct gctaaagaaa ggaacacctag caccaccagc agcggcaaat atgaggacag cgatgggtgt tacctgcaaa agaccaggcc ccgagggaag ctggagctcc ggcagctgtc caccggcagc agcagcaggg ccaacccgat ccgagataac agctccgcag ccaacctgat ggccaagaaa aggtgatcc gcattgtcat cgtcatcgtg tctctcttct tccgtgtctg gatgccatc ttcagcgcca acgcttgccg ggcctacgac accgctcccg cagagcgccg cctctcagga accccatctt ccttcatcct cctcctgtcc tacacctcct cctgcgtcaa ccccatcatc tactgcttca tgaacaaaacg ctccgcctc ggcttcatgg ccaccttccc ctgctgcccc aatcctgtgc cccagggggc gaggggagag gtgggggaggg aggaggaagg cgggaccaca ggagcctctc tgtccagggt cctgtacagc catatgagt cctcgggtgcc acccagtgga gatgtccctt gaccctccac cgcagaagga aggcaggag gaggcagaga agaaagaacg gaagaagaga tcagggaagag aagagcaga gcagagctga tggagaagga aggtccatc tccagtggga actctcaag gtctcttttc atcctcatc tgatccaga gactgctcc agtggggcca tgattggttt ctaggcagtt caaagcagga tatgttaagt aacactcaac catcag
94	978	Cholecystoki nin A Receptor	Coupled Receptor GPR30	MDVVDLSLWV GSNITPPCEL GLENETFLCL DQPRSKEMQ PAVQILLYSL IFLLSVLGNTP P Homo sapiens
				LVITVLIRNK RMRTVNIFL LSLAVSDML CLFCMPFNLI PNLKDFIFG SAVCKTITYF MGTSVSVSTF NLVAISLERY GAICKPLQSR VMQTKSHALK VIAATWCLSF TIMTPYPIYS NLVPFTKNNN QTANMCRFL PNDVMQOSWH TFLLLIFLI PGIVMMVAYG LISLELYQGI KFEASQKKA KERKPTTSS GKVEDSDGCV LQKTRPRKL ELRQLSTGSS SRANRIRNS SAANLMAKR VIRMLIVIV LFFLCWMPIF SANAWRAYDT ASAERRLSGT PISFILLSY

95	1103	Corticotropin releasing factor Receptor 2	NP_001883	MSASVPPQ	<p> TSSCVNPIIY CFMKNRFRLG FMATFPCCPN PGPPGARGEV GEEEGGTTG ASLSRFSYSH atggacgcgg cactgctcca cagcctgctg gaggccaact gcagcctggc gctggctgaa A gagctgctct tggacggctg ggggccacc ctggacccecg aggtcccta ctctactgc aacacgacct tggaccagat cggaaactgc tggcccccga gcgtgcccgg agccctctg gagaggccct gcccagatga cttaaacggc gtcaagatca acacgacccg gaatgcctat cgagaatgct tggagaatgg gacgtggggc tcaaatgata actactaca gtgtgagccc attttggatg acaagcagag gaagtatgac ctgcactacc gcacgcccct tgcgtcaaac tacctgggccc actgcgtatc tgtggcagcc ctgggtggccc ccttctctgct ttctctggcc ctgcggagca ttogctgtct cctgtgtggt cctgtgtgag attcaactgga acctcatcac cactttatc ctgcgaatg tcatgtgtgt cctgtgtgag ttcactgacc atgaagtga cagagacaat gaggtctggt gccactgcat caccaccatc ttcaactact tcgtgtgac caacttcttc tggatgtttg tggaaaggctg ctacctgcac acggccattg tcatgacct ctccactgag cgctgcgca agtgccctct cctcttcac ggatggatga tccccttccc catcatcgtc gctggggcca tgggcaagct ctactatgag aatgaacagt gctgggtttgg caaggagcct ggcgacctgg tggactacat ctaccaaggc cccatcatc tcgtgctct gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgcgtc caccacatcc gagacaatcc agtacaggaa ggcagtgaag gccaccctgg tgcctctgccc cctccctgggc atcacctaca tgcctctctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atcatattca actccttctt gcagtcgttc cagggtttct tcgtgtctgt ctctactgc ttcttcaatg gagaggtgag ctacagcgtg aggaagaggt ggcaccgctg gcaggacct cactcccttc ggtgccccat ggcgcgggccc atgtccatcc ctacatcacc cacacggatc agcttccaca gcatcaagca gacggccgct gtgtgacccc tcgtgcgccc acctgcacag ctccctctgc ctctccacc ttcttctct tgcgttctctg tgcgtggcag gctctctgtg ggcaggagat gggaggggag agaccagctc tcacgcctgg caggaaagag ggggtgcggc agccaagggg gactgcaagg gacagggatg agtgggggccc accaggctca gcgcaagagg aagcagaggg aattcacagg acccctgag aagagccagt cagatgtctg caggcatattg cccatcccg cctctctg caggcccta ctgggcccag agcagagaag gacctgtcca acacacacag ctatttatag tagcacac agggctcccc tgcctactc atggagcccag cagccaggca atggtgtggc cctgcactgg ccttggact ccacactcag tggtgccctg cagttgggtg ggttaacgcc aagcaaaagg tcaatttggc tgcctatcc cagggtgtgc acctagagag gctcaattgt acccaccct gtctctgtgt cccctcccc gccatcctcc ccgctttggg gctccatga aggatgcagg ctccaggcc tggcttcttc tcttgggaga ccccctctt gcttagtcca cagattagc aatcaaggaa gacgccatca ggaagaccac atccttagtc aaccagtgc atcgtgcgg gcaaatgag gacagagggc atggagaggg gagcgtgggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgccttttg cccctccagtc tccctctcag aaacatctct gctctctgtg aaataaacca tgctctcttg </p>	Homo sapiens
96	1103	Corticotropin releasing factor	NP_001874.1	MDAALLHSL	<p> ERPCEYFNG VKYNTNAY RECLNGTWA SKINYSQCEP ILDDKQRYD LHYRIALVN YLGHCVSVA LVAELLFLA LRSIRCLRN IHNLTTFI LRNVWFLLQ LVDHEVHESN </p>	Homo sapiens

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100	1241	Dopamine Receptor D5	NP_000789.1	<p> tatacagacgt cccagatggt tgaccctgtt gctgagtctg tctgggagct ggactgcgag ggggagattt ctttagacaa aataaacctt ttcaccccca atggattcca ttaaacctgca ttaagaaacc ccctcatgga tctgcataac cgcacagaca ctgacaagca cgcacacaca cgcaaataca tgcctttcca gtgctgtcc ctttatctg tagttctgtg tagtagctcg tgtgcttaga aacctcacc cattgattgg tagttcgaag aattggcaga atcagttgca ataaacctcag tcaaatgtac ccagcctacc agagatggag caacgatcct atgagagag agagtatggt gctgggtcct taaaaaaa aatgatactt ggtccttaaa aatatgctc tcccctcct ttttaacaa atggcttgtt cagtcacttg tttgtgtttg aattgatttt taaacagcag gttgtgtgtg tgtgcagtga tgtggtggga gcacagcttt cctgggtctg gattcccggt gctttgtgct tatgtcattt cttctctctg tgctggtggg ggcctcttta ccatagctta agaagtatcc ctgatttatt ctggtgtcta ataaacacag attatttcta aaaaaaaaa aaaaaaaaaa aa </p>	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	<p> MLPPGNGTA YPGQFALYQQ LAQGNVAVGGS AGAPPLGPSQ VWTACLLTLL IIMTLGNVL P VCAALVRSRH LRANMTNVFI VSLAVSDLFV ALLVMPWKAV AEVAGYWPFG AFCDVWVAFD IMCSTASILN LCVISVDRYW AISRPFRYKR KMTQRMALVM VGLAWTLSIL ISFIPVQLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEF DVNAENCDS LNRTYAISS LISFYIPVAI MIVTYTRIYR IAQVQIRRI SLERAAEHAQ SCRSSAACAP DTSLRASIKK ETKVLKTLV INGVFVCCWL PFFILNCMPV FCSGHPGPP AGFPCVSETT FDFVFWFGWA NSSLNPVIYA FNADFQKFA QLLGCSHFCS RTPVETVNIS NELISYNQDI VFHKEIAAAY IHMPNNAVTP GNREVDNDEE EGPFRMFOI YQTSPDGDPV AESVWELDCE GEISLDKITP FTPNGFH agagcctggc caccagtgg ctccaccgcc ctgatggatc cactgaatct gtcttggtat A gatgatgatc tggagaggca gaactggagc cggtcccttca acgggtcaga cgggaaggcg gacagacccc actacaacta ctatgccaca ctgctcacc ctgctatcgc tgtcatcgtc ttcggcaacg tctgtgtgtg catggctgtg tcccgcgaga aggcgctgca gaccaccacc aactacctga tctgcagcct cgcagtggcc gacctcctcg tcgccacct ggtcatgccc tgggttgtct acctggaggt ggtaggtgag tggaaattca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc tgaacttgtg tgccatcagc atcgacaggt acacagctgt ggccatgcc atgctgtaca atacgcgcta cagctccaa cgccgggtca cgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctctgccc ctctcttctg gactcaataa cgcagaccag aacgagtga tcatigccaa cccggccttc gtggtctact cctccatcgt ctcttctac gtgcccttca ttgtcacct gctggtctac atcaagatct acattgtcct cgcagacgc gcgaagcga tcaaaccaa acgcagcagc cgagctttca gggccacct gagggctcca ctaaaggga actgtactca cccgagggag atgaaactct gcaccgttat catgaagtct aatggaggt tccagtgaa caggcgga gtgagggctg cccggcgagc ccaggagctg gagatggaga tgcctccag caccagccca ccgagagaga cccggtacag ccccatccca ccagccacc accagctgac tctccccgac cgtccccacc atggtctcca cagcaactcc cagagcccc gcaaaccaa gaagaatggg catgccccag accaccccaa gatggccaag atctttgaga tccagacct gcccaatggc aaaaacccga cctccctcaa gacctgagc cgtaggagga tctccagca gaaggagaa aaagccactc agatgtctgc cattgttctc gpgtgttca tcatctgtg gctgcccttc ttcatcacac acatcctgaa catacactgt gactgcaaca tccgcctgt cctgtacagc </p>	Homo sapiens

102	1242	Dopamine Receptor D2	NP_000786.1	<p>gacctcacgt ggctgggcta tgtaaacagc gccgtgaacc ccatcatcta caccacctc aaccatgagt tccgcaaggc cttctgaag atctccact gctgactctg ctgacctgcc gcacagcagc ctgcttccca cctccctgcc caggccggcc agcctcacc ccctgaaccg tgagcaggaa ggctgggtg gatgggctc ctctcttag ccccgccagg ccctgcagt ttcgtctggc tccatgctc tcaactgcc caccacctc ctctgccagg gcagtgtctg tgagctgggc atggtaccag ccctggggct ggccccact caggggcagc tcatagagtc ccccctcca cctccagtc cctatcctt ggacacaaag atgcagccgc cttccttgac cttctcttgg ggctctaggg ttgctggagc ctgagtcagg gccagaggc tgagtttct ctttgtggg cttggcgtgg agcaggcgtt ggggagagat ggacagttca caccctgcaa ggccccacag aggcaagcaa gctctcttgc cgaggagcca ggcaacttca gtccctgggag accatgtaa ataccagact gcaggttggc cccgagagat tcccaagcca aaaccttag ctcctcccg caccctgatg tggacctta cttccagc tagtccggc ccacctcacc cogttacagc tccccagtg gttccacat gctctgagaa gaggagccct catcttgaag ggccccagag ggtctatggg gagagaaact ccttgcccta gccacctg ctgccttctg acggccctgc aatgtatccc ttctcacagc acatgctgc cagcctggg cctggcaggg aggtcaggcc ctggaactct atctgggctt gggctaggga catcagaggt tctttgaggg actgcctctg ccacactctg acgcaaaacc acttctctt tetattcct ctggccttc ctctctctg accatctggt cttccactgc cctgccccta gaggagccca cggctaagag gtgctgaaa accatctggt cctgccccta ggaaggagg gaaagctgag cttgggagag cccctgggc ctgactctg taacatcact atccgatgca ccaactaat aaaacttga cgagtcacct tc</p>	Homo sapiens
103	1243	Dopamine Receptor D3	NM_000796	<p>MDPILNSWYD DDLERQNSR PFNGSDGKAD RPHNYATL LTLIAVIF GNVLCMAVS P REKALQTTN YLIVSLAVD LLVATLMPW VVLEVWGEW KFSRIHCDIF VTLDVMCTA SILNLCAISI DRYTAVAMP LYNTRYSSKR RVTVMISIVM VLSFTISCPL LFGLNNADQN ECIANPAFV VYSSIVFYV PFIVTLLVYI KTYIVLRRR KRVNKRSSR AFRAHLRAPL KGNCTHPEDM KLCIVIMKSN GSFPVNRVV EAAPRAQELE MEMLSSTSP ERTRYSPIPP SHHQLTLPDP SHHGLHSTPD SPAKPEKNH AKDHPKIAKI FEIQTMPNGK TRTSLKTMRS RKLSQKQKK ATQMLAIVLG VFILCWLPFF ITHILNIHCD CNIPPVLYSA FTWLGYNVNSA VNPIIYTFN IEFKAFLEKI LHC</p>	Homo sapiens

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104 1243 Dopamine Receptor D3 NP_000787.1 MASLSQLSSH LNYTCGAENS TGASQARPHA YYALSICALI LAIVFGNGLV CMAVLKERAL P
 QTTNLYLVS LAVADLLVAT LVMFWVYLE VTGGVWNFSR ICCDVFTLD VMMCTASILN
 LCAISIDRYT AVMPVHYQH GTQSSCRRV ALMITAVWVL AFVSCPLLF GFNTTGDPTV
 CSISNPDEVI YSSVWSFYLP FGVTVLVYAR IYVWLKQRRR KRILTRQNSQ CNSVRPQFPQ
 QTI SPDP AHL ELKRYYSICQ DTALGGPGFQ ERGELKREE KTRNSLSPTI APKLSLEVRK
 LSNRLSTSL KLGPLOPRGV PIREKKATQM VAIVLGAFTV CWLPFFLTHV LINTHCQTCHV
 SPELYSATTW LGVNSALNP VIYTFNIEF RKAFLKILSC

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105 1244 Dopamine Receptor D4 NM_000797
 atggggaaac gagacaccgc ggacgcggac gggctgctgg cttgggcgcg gccggcgcg A
 ggggcatctg cgggggcac tcgggggctg gctgggcagg gcgcggcgcg gctgggtggg
 ggcgtgctgc tcatcggcgc ggtgctcgcg gggaactcgc tcgtgtgcgt gacgtggcc
 accgagcgcg cctgcagac gccacacac tccttcacg tgagcctggc ggcgcgcgac
 ctctctctcg ctctctggt gctgcgctc tctgtctact ccgaggtcca ggggtggcg
 tggctgctga gccccgcct gtgcgacgc ctcagtggca tggacgtcat gctgtgcacc
 gctccatct tcaacctgtg cgcctcagc gtggacaggt tcgtggccgt gccctgccc
 ctgcgtaca accggcaggg tgggagccgc cggcagctgc tgcctacg cgccacgtgg
 ctgctgtccg cggcggtggc ggccgcgta ctgtgcggcc tcaacgacgt gcgcggccgc
 gacccgcgcg tgtgcgcct ggaggaccgc gactacgtgg tctactcgtc cgtgtgctcc
 ttcttctac cctgcccgct catgtgctg ctctactggg ccacttccg cggcctgcag
 cgtggggagg tggcacgtcg cccaagctg ccggcgcgcg cccccgcg accagcggc
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106	1244	Dopamine Receptor D4	NP_000788.1	<p>cctgctgtct cctgtccccc ggggtggtc agcgccgtca cctgggtggg ctacgtcaac agcgccctca acccgtcat ctacactgtc ttcaacgcgc agttccgcaa cgtcttcgcg aaggccctgc gtgctgtctg ctgagccggg caccgccggg cgccccggg cctgatggcc aggcctcagg gaccaaggag atggggaggg cgcttttcta cgttaattaa acaaatctct tccc</p> <p>MGNRSTADAD GLLAGRPAA GASAGASAGL AQGAAALVG GVLLIGAVLA GNSLVCVSA P TERALQTPTN SFTVSLAAD LLALLNLPL FVYSEVQGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDRFVAVP LRYNRQGSR RQLLIGATW LLSAAVAAPV LCGLNDVRGR DPAVCRLEDR DYVYSSVCS FELPCPLMLL LYWATERGLQ RWEVARRAKL HGRAPRRPSG PGPSPPTPA PRLPQDPCGP DCAPPAPGLP RGPCGPDCA PAAFGLPPDP GPDCAFPAPG LPQDPCGPD CAPPAPGLP RGPCGPDCA PGLPQDPCGP DCAPPAPGLP PDPGSGNCAP PDAVRAAALP PQTPPQTRR RRAKITGRER KAMRVLVVV GAFLLCWTFF FVHITQALC PACSVPPRLV SAVTWLGYVN SALNPVIYTV FNAEFNRVFR KALRACC</p>	Homo sapiens
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	<p>ccgaggagcc tggctgtctc ctggctcaca ggcctccggg cgaggagagc gggcgagccg A gggggctggg ccggtgcggg cggcgaggca ggcggacgag gcgcagagac agcgggggcg ccggggcgcg gcacgcggcg ggtcggggcc ggcctctgcc ttgccgtccc cctcgcgtcg gatcccccg cccaggcagc cgttgagag ggcgcggcg gacgcggca gccatggaa cggccccctc cgcggcgcc gagctgcgc cccgctctt gcccaacgcc tcggagcctc acctagcgc ctccccagc gctggcgcca atgctgcggg gccgccagga ccggggagcg cctcgtccct cgcctggca atgccatca cgcgctcta ctcggccgtg tgcgcccgtg ggctgtggg caactgctt gtcatttcc gcatcgtccg gtacactaag atgaagacgg ccaccaacat ctacatttc aacctggcct tagccgatgc gctggccacc agcacgtgc ctttccagag tgccaagtac ctgatggaga cgtggccctt cggcgagctg ctctgcaagg ctgtgctctc catgactac tacaatatgt tcaccagcat ctacacgctc accatgatga gtgtgaccg ctacatcgtc gctggccacc ctgtcaaggc cctggacttc cgcacgctg ccaaggccaa gctgatcaac atctgtatct ggttcctggc ctcaggcgtt ggcgtgccc tcattggtcat ggtgtgacc cgtccccggg acggtgcagt ggtgtgcagt ctcacagtcc ccagcccccag ctggtactgg gacacggtga ccaagatctg cgtgttcttc ttgccttcg tggtgccccat cctcatcacc accgtgtgct atggcctcat gctgtgcgc ctgacgagt tgccgctgct gtcgggctcc aaggagaagg accgcagcct gcggcgcatc accgcgcatgg tgctggtggt tggggcgcc ttctgtggtg ttggggcgcc catcacatc ttctcatcgc tctggacgct ggtggacatc gaccggcgcg acccgctggg gttggctlgcg ctgacactgt gcacggcgct gggctacgcc aatagcagcc tcaacccccg gctctacgct tctctcgacg agaaactcaa gcctgtctc cgcacgctct gcgcgaagcc ctggcgccgc ceagacccca gcagcttcag ccggcccccg gaagccacgg ccgcgagcgc tgtcacccgc tgcaccccg ccgatggtcc cggcggtggc cgtgcgcct gaccaggcca tccggcccc agacgcccc ccctagtgt acccgaggc cacatgagtc ccagtggag gcgcgagcca tgatgtggag tggggccagt agataggtcg gaggcctttg ggaccgccag atggggcctc tgttcggag acgggaccgg gccgctagat gggcatgggg tgggcccctg gttggggcg aggcagagga cagatcaatg gcgcagtgc tctggtctgg gtccccctc ccacggctct aggtggggcg ggaagccag tgactccag agaggagcgg gacctgtggc tctacaactg agtccctaaa</p>	Homo sapiens

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	<p> caggcatct ccaggaaggc ggggcttcaa ccttgagaca gcttcgggtt ctaacttggg gccggacttt cggagttggg gggtcggggg ccc MEPAPSAGAE LQPPLFANAS DAYPSAFPSA GANASGPPGP GSASSLALAI AITALYSAVC P AVGLLGNVLV MFGIVRYTRM KTATNIYFN LALADALAFR TLPFQSAKYL METWPFGEILL CKAVLSIDYY NMFTSIFTLT MMSVDRIYAV CHPVAKLINF TPAKAKLINI CIWVLASGVG VPIMMAVTR PRDGAUVCM L QPSPSWYWD TVTKICVFLF AFWPIILIT VCYGLMLRL RSVRLLSGSK EKDRSLRRIT RMVLVAVGAF VVCWAPIHIF VIVWTLVDID RRDPVLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCER QLCRKPCGRP DPSSFSPRE ATARERTAC TPSDGPGGGR AA </p>	Homo sapiens
109	1424	Duffy Antigen	NM_002036	<p> gggcctgaac caaacgggtgc catggggaac tgtctgcaca gggtagtat ggggccaggc A ccagagatcc cttatcccta tgcccctcat ttcccctgct gtttgcccc cagctcttat atctcttctt ttctctcttc atcttttctc ccttcccgct ttttctctt ccttcaaag tcttttctt tctctcttc ctatgtagc ctcttagtc cctcttggt ccttccctt gcctttgagt cagttccatc ctggtctctt ggtgccttc ctctgacct tgcactgctc ctccagccc agctgcccctg gcttccccag gactgttctt gctccggctc ttcaggctcc ctgctttgtc cttttccact gtccgacctg catctgacct ctgcagagac cttgtttctc caccgacct tctctctgt cctccctcc cactgccc tcaattccca ggagactctt ccggtgtaac tctgatggc tctctgggt atgtctcca ggcggagctc tccccctcaa ctgagaaactc agtcagctg gacttcgaag acttcgtaa tcttctctat ggtgtgaatg attctctccc agatggagac tatgatgcca acctggaagc agctgcccc tgccactcct gtaacctgct ggatgactct gactgacct tcttctacct caccagtgct ctgggtatcc tagctagcag cactgtctc tctatgctt tcaagacctt cttccgctgg cagctctgcc ctggctggcc tgtcctggca cagctggctg tgggcagtc cctcttcagc attgtggtgc ccgtcttggc cccagggcta ggtagcactc gtagctctgc cctgtgtagc ctgggctact gtgtctggtg tggctcagcc ttgcccagc cttgtctgt aggtgtccat gctccctgg gccacagact gggtcaggc caggtcccag gctcaccct ggggctcact gtgggaattt ggggagtgcc tgcctactg acactgcctg tcaacctggc cagtgtgct tctggtggac tctgcacct gatatacagc acgagctga agcttttga ggcacacac actgtagcct gtcttgccat cttgtcttg ttgcatggg gttgttttg agccaaaggg ctgaagaagg cattgggtat ggggccaggc cctggatga atactctgt ggcctggtt atttctggt ggcctcatgg ggtggttcta gactggatt tctggtgag gccaagctg ttgtgtgtg caacatgtct ggcacagcag gctctggacc tctgtctgaa cctggcagaa gctctggcaa tttgcactg tgtgggtacg cctctgtcc tgcctctatt ctgccaccag gccaccgca ccctctgccc cctctgccc cctccctgaag gatggtcttc tcatctggac accttggaa gcaaatccca gttctcttc cactgtcaa cctgaattaa agtctacat gctctgtg DSALPFFILT SVLGILASST VLFMLFRPLF RWQLCPGWPV LAQLAVGSAL FSIWVPVLAP P GLGSTRSSAL CSLGVCWYWG SAFAQALLIG CHASLHRLG AGQVPLTLG LTVGIWGVAA LLTLPVTLAS GASGGLCTLI YSTELKALQA THTVACLAIF VLPLGLEFGA KGLKVALGMG PGPWNILWA WFIFWPHGV VLGLDFIVRS KLLLSCTCIA QQALDILLNL AEALAILHCV ATPLLLALFC HQATRIILPS LPLPEGWSSH LDTLGSKS </p>	Homo sapiens
110	1424	Duffy Antigen	NP_002027.1	<p> MASSGVVLOA ELSSTENSS QLDFFDVNS SYGVNDSFPD GDYDANLEAA APCHSCNLLD P </p>	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gatatacacc tggaccacca ccaatggata tacaatggc aaacaatttt A actccgccct ctgcaactcc tcagggaat gactgtgacc totatgcaca tcacagcacg gccaggatag taatgcctct gcattacagc ctgctcttca tcattgggct cgtgggaac ttactagcct tggctgctcat tgttcaaac aggaataaac tcaactctac caccctctat tcaacaaatt tggtagatttc tgatatactt ttaccacccy tttgcctac acgaatagcc tactatgcaa tgggctttga ctggagaatc ggagatgect tgtgtaggat aactgcgcta gtgttttaca tcaacacata tgcagggtgtg aactttatga cctgacctgag tattgaccgc ttcattgctg tgggtgcacc tctacgctac aacaagataa aaaggattga acatgcaaaa ggcgtgtgca tatttgtctg gattctagta ttgtctcaga cactccact cctcatcaac cctatgtcaa agcaggaggg tgaaggatt acatgcatgg agtatccaaa ctttgaagaa actaaatctc ttccctggat tctgctggg gcattgttca taggatattg acttccactt ataatcattc tcatctgcta ttctcagatc tgcgtcaaac tcttcagaac tgcacaaaca aaccactca ctgagaaatc tgggtgaaac aaaaaggctc tcaacacaaat tattcttatt attgttgtgt ttgttctctg ttccacacct taccatgttg caattattca acatattgatt aagaagcttc gtttctctaa ttctctggaa tglagccaaa gacattcggt ccagatttct ctgcacttta cagtatgcct gatgaacttc aattgctgca tggacccttt tatctacttc tttgcatgta aagggtataa gagaaagggt atgaggatgc tgaacggca agtcagtgtg tcgatttcta gtgctgtgaa gtcagccct gaagaaat cagtgaaat gacagaaacg cagatgatga tacattccaa gtcttcaaat ggaagtgaa atggattgta ttttggttta tagtgacgta aactgtatga caaactttgc aggaacttcc ttataaagca aaataattgt tcagcttcca attagtattc ttttatttt ctttcattgg gcaatttccc atctccaact cggaaagtaag cccaagagaa caacataaag caaacacat aaagcacaaat aaaaatgcaa ataaatattt tcaattttat ttgtaaacga atacaccaa aggagggcgt cttataaact cccaatgtaa aaagtattgt ttaataaaa aatttaatta ttatttctg ccaacaaatg gctagaaggg actgaataga ttatatattg ccagatgtta atactgtaac atacttttta aataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gtttgtttc gtctgggtc ataaaacttt gtaaggaac tcttttgga taaagagcag gatgctgc MDIQANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFILGLVNL LALVVIVQNR P KKINSTIYS TNLVTSILF TTALPTRIAY YANGFDWRIG DALCRITALV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKG VCIWFILVF AQTIPLLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFIGYVLPLI IILICYSQIC CKLFRTAKQN PLTEKSGVWK KALNTIILII VVFLCFTPY HVALLQHMIC KLRFNFLEC SQHSFQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQVSVS ISSAVKSAPE ENSREMTETQ MHIHSKSSNG K	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	gagacattcc ggtgggggac tctggccagc ccagagcaacg tggatcctga gagcactccc A aggtaggcat ttgccccggt gggagcctt gccagagcag tgtgtggcag gccccgtgg aggatcaaca cagtggtcta acactggga ggaactggtta ctggagtctt ggacatctga aacttggctc tgaactgcy cagcggccac cggagcctt tggagcagg tagcagctag cagccgctc caagtctgtg cggacgcgc ctggttcgc tggttcttcg ctgaggcctg tcgcgcatct ggggagagga gagaggcttc ccgctgaca gggccactcc gctttgcaa	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115		

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114	1486	Endothelin B NP_000106.1 Receptor	<p> acatggtgct tttcttctcat ctgagaggcaa aactgctttt tgagaccgta agaaccctctt agctttgtgc gttctcgctt aatttttata tcttctaagc aaagtgcctt aggatagctt gggatgagat gtgtgtgaaa gtatgtacaa gagaaaacgg aagagagagg aaatgagggtg ggggttgagg aaacccatgg ggacagattc ccattcttag cctaacgttc gtcattgcct cgtcacatca atgcaaaaagg tcttgatttt gttocagcaa aacacagtcg aatgttctca ggtgacttt cgaataaaat tgggccaag agctttaaa cggctttaaa atatgcccc aattttactt tgttttctt ttaataggct ggccacatg ttggaataa gctagtaagt ttgttttctg tcaatattga atgtgatggt acagtaaac aaaaaccaac aatgtggcca gaaagaaaaga gcaataataa ttaattcaca caccatagg attctattta taaatcacc acaaacctgt tctttaattt catccaatc acttttccag aggcctgta tcatagaagt cattttagac tctcaattt aaattaattt tgaatcacta atattttcac agtttattaa tataattaat tctatttaa attttagatt atttttatta coattgtactg aatttttaca tcttgatacc ctttcttctt ccatgtcagt atcatgttct ctaattatct tgccaaattt tgaactaca cacaaaaagc atacttgcatt tatttataat aaaattgcat tcagtggctt tttaaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat tctttacat actcaaaacc aagatagaaa aggtgctat cgttcaactt caaaacatgt ttcctagat taaggacttt aatatagcaa cagacaaaat tattgttaac atggatgta cagctcaaaa gattataaa agattttaac ctttttctc cttattatc cactgcta gttgatgtat gttcaaacac cttttagat: tbatagctta catatggcca aaggaataca gtttatagca aaacatgggt atgtgtgagc taactttata aaagtgtaat ataacaatgt aaaaaattat atatctgga ggttttttg gtgctctaaa gtgctatag ttaactgattt tttattatgt aagcaaaacc aataaaaaat taagtgtttt taacaactac cttatttttc actgtacaga cactaattca ttaataacta atgtattgtt taaaagaaat aataatgtga caagtggaca ttattatgt taaatataca attatcaagc aagtatgaag ttattcaatt aaaaatgccac atttctgtc tctggg MQPPSLCGR ALVALVLAGG LSRIWGEERG FPPDRATPLL QTAEIMTPPT KTLWPKGSNA P SLARSLAPAE VPKGDRTAGS PPRTISPPPC QGPIEIKETF KYINTVWSCL VFVLGIIGNS TLLRIYKNK CMRNGPNILI ASLALGDLH IVIDIPINVY KLLAEDWPFQ AEMCKLVPF1 QKASVGITVL SLALSIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSV VLAVPEAIGF DIITMDYKGS YLRICLLHPV QKTAFMQFYK TAKDNLFSF YFCLPLAITA FFYTLMTCEM LRKKSQMQIA LNDHLKQRRE VAKTVFCLVL VFALCWLPLH LSRIKLTLY NONDENRCEL LSFLVLVDYI GINMASINSC INPIALYLVS KRFKNCFKSC LCCWCQSFE KQSLEEKQSC LKFKANDHGY DNFSSNKYS SS gaattcgcgg ccgcctcttg cggctccaga gtggagtga aggtctggag ctttgggagg A agacggggag cacagactgg aggcgtgttc ctccggagtt tctttttcgt tgcagagcct cgcgcgcgcg tacagtcatc ccgtgtgtct gacagttgtg gagagcggtt ggagagcctt catccatccc acccggtcgt cgcgggggat tgggttccca gcgacacctc cccggagaaa gcagtgcaca ggaagtcttc tgaagccggg gaagctgtgc agccgaagcc gccgcgcgcg cgagagccgg gacacggccc accctcgcg ccaccaccc tgccttctc cggcttctc tggccaggc gccgcggga cccgcagct gctcgcgac gccagctcc acgtgaaaa aaaaagtga ggtgtaaaag cagcacaagt gcaataagag atatttctc aaatttgcct </p>	Homo sapiens
115	1488	Endothelin A NM_001957 Receptor	<p> gaattcgcgg ccgcctcttg cggctccaga gtggagtga aggtctggag ctttgggagg A agacggggag cacagactgg aggcgtgttc ctccggagtt tctttttcgt tgcagagcct cgcgcgcgcg tacagtcatc ccgtgtgtct gacagttgtg gagagcggtt ggagagcctt catccatccc acccggtcgt cgcgggggat tgggttccca gcgacacctc cccggagaaa gcagtgcaca ggaagtcttc tgaagccggg gaagctgtgc agccgaagcc gccgcgcgcg cgagagccgg gacacggccc accctcgcg ccaccaccc tgccttctc cggcttctc tggccaggc gccgcggga cccgcagct gctcgcgac gccagctcc acgtgaaaa aaaaagtga ggtgtaaaag cagcacaagt gcaataagag atatttctc aaatttgcct </p>	Homo sapiens

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aaatgaaaacc agaagatat ttactacttt tgcataaaa tagagctttc aagtacatgg
ctagtcttta tggcagttct ggtgaatgtt caatgggaac tggtcaccat gaaactttag
agattaacga caagattttc tactttttt aagtgtattt ttgtccttca gccaaacaca
atatgggctc aggtcacttt tattgaaat gtcaatttgg gccagtattt ttaactgca
taatagccta acatgattat ttgaacttat ttacacatag ttgaaaaaaa aaagacaaa
aatagtattc aggtgagcaa acaatacta ttagattagt atttccacy tcaatttta ttttttaa
acacaaattc taaagtaca acaatacta caggccctta aagcacagtc tgatgacaca
tttggcagtt taatagatgt tactcaaga atttttaag aactgtattt tatttttaa
atgggttttt attacaagg accttgaaca tgttttgtat gttaaattca aaagtaatgc
ttcaatcaga tagtttttt tcacaagttc aatactgttt tcaatgtaaa ttttgtatga
aaaatcaatg tcaagtacca aaatgttaat gtatgtgtca ttttaactctg cctgagactt
tcagtgact gtatatagaa gtctaaaaa cactcaagag aaaagatcg aattttcag
atgattcga aatttcatt caggtatttg taatagtac atatatatg atatatat
cacctctat tctcttaatt ttgttaaaa tgttaactgg cagtaagtct ttttgtatca
ttcccttttc catataggaa acataatttt gaagtgcca gatgagtta tcatgtcagt

116	1488	Endothelin A NP_001948.1	Receptor	<p>gaaaaataat taccacacaa tgccaccagt aacttaacga ttcttcaatt ctgtggggttt tcagtatgaa cctaactccc caccacacaa tctccctccc acattgtcac catttcaaaag ggccacacagt gacttttggc gggcattttc ccagatgttt acagactgtg agtacagcag aaaaatcttt actagtgtgt gtgtgtatat atataacaa ttgtaaattt cttttagccc atttttctag actgtctctg tggaatatat ttgtgtgtgt gatataatga tgtgtgtgtg ggatgtatg gatttaactt aatctaataa ttgtgtgtgt cagttgtgac aaagtgcata gtctgagcta aaatctaggt gatgttcat catgacaacc tgcctcagtc cattttaacc tgtagcaacc ttctgcattc ataatcttg taatcatgtt accattacaa atgggatata agaggcagcg tgaagcaga tgagctgttg actagcaata taggggtttg tttgggttgg tgggttgata aagcagtatt tggggtcata ttgtttcttg tgctggagca aaagtcatta cactttgaag tatttatattg ttcttatctt caattcaatg tggatgatga atggcaggt tgtctgatat ttctttcaga cttcgcaga cagattgtgt ataataaatt agttaagata atltgttggg coatatattta ggacaggtaa aataacatca ggttccagtt gcttgaattg caaggctaag aagtactgcc cttttgtgtg ttagcagtc aatctattat tccactggcg catcatatgc agtgatatat gcttataata taagccatag gtccacacca tttgttttag acaattgtct ttttttcaag atgctttgtt tctttcatat gaaaaaaatg cattttataa attcagaaaag tcatagattt ctgaaggcgt caacgtgcat tttatttatg gactggtaag taactgtgtt ttactagcag gaatatctcc aatttctacc ttactacat cttttcaaca agtaactttg tagaaatgag ccagaagcca aggcctgag ttggcagtggt cccataagtg taaaataaaa gtttacagaa acctt</p>	Homo sapiens
117	1598	Calcium-Sensing Receptor (CASR)	NM_000388	<p>caacaggcac ctgggtgcag ccaggaagga ccgacgccc ttctgcgcag gagagtggaa A ggaggagct gtttgcagc accgaggtct tgcggcacag gcaacgcttg acctgagctt tgcagaatga aaggcatcac aggagcctc tgcattgatg ggttcccaa gactcaagga ccaccacat tacaagtctg gattgagga ttgtgtccca ctgcagggag tgaactgtct tctattattt tattaatcaa tctgtagaca tctgtccca tctatctgt cccctggaga caaggagaa acttctggga gctccaaac tctatctgc tctgtggctt cactcggcac gacggcagaa ccatggcatt ttatagctgc caaagaagg gggacattat ccttgggggg acctctgctt acgggccaga ccagcagcct aaagatcaag atctcaaatc aaggccggag ctcttcccta ttcatttttg agtagcagct taatttccgt ggttacaggc tatgatattt tctgtggaat gtatcaggtt taatttccgt ggttttccgt ggttacaggc tatgatattt gccatagagg agataaacag cagccagcct cttcttccca actgacgct gggatcacagg atatttgaca cttgcaaac cgtttctaag gacttggag ccacctgag tttgtgtgct caaaacaaaa ttgattcttt gaaccttgat gatttctgca actgctcaga gcaattcccc</p>	Homo sapiens

tctacgattg ctgtggtggg agcaactggc tcaggcgtct ccacggcagt ggcaaatctg
ctggggctct tctacattcc ccaggtcagt tatgctctct ccagcagact cctcagcaac
aagaatcaat tcaagtcttt cctccgaacc atccccaatg atgagcacca ggccactgcc
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gactatggc ggccggggat tgagaaattc cgagaggaag ctgaggaag ggatatctgc
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cacgaagaaa gtggcgacag gtttagcaac agctcgacag attacacgca ttacggata
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tccataaatg tctacttagc agtctactcc attgccacg ccttgcaaga tatataacc
tgcttacctg ggagagggtt cttcaacaaat ggctcctgtg cagacatcaa gaaagttag
gcgtggcagg tcttgaagca cctacggcat ctaaacctta caaacaatat gggggagcag
gtgaccttg atgagtgtg tgacctgtg ggaactatt ccatcatcaa ctggcacctc
tcccagagg atggttccat cgtgttaag gaagtctgg attacaactg ctatgccaag
aaggagaaa gactcttcat caagaggag aaaaactctg ggagtgggtt ctccaggag
gtgccctct ccaactgcag ccgagactgc ctggcaggga ccaggaaaag gatcatgag
ggggagccca cctgctgctt tgagtgtg tggtgtctg atggggagta tagtgatgag
acagatgcca gtgctgttaa caagtccca gatgacttct ggtccaatga gaaccacac
tctgcattg ccaaggagat cgaatttctg tctgggacgg agcccttttg gatcgactc
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ttccgcaaca caccattgt caaggccacc aacggagagc tctctacct cctctcttc
tccctgctct gctgcttct cagctccctg ttcttcatg ggagagccca ggaactggag
tgccgctgc gccagccggc ctitggcatc agcttctg tctgcatctc atgcatcctg
tgaaaaacca accgtgctct cctgtgtt gaggccaaga tcccccacag ctccaccgc
aagtgtggg ggctcaacct gcagttctg ctggttttcc tctgcacctt catgcagatt
gtcatctgt tgatctggt ctacaccgg cccctctca gctaccgcaa ccaggagctg
gaggatgaga tcatcttcat cactgcccac gaggtctccc tcatggccct gggttctctg
atcggttaca cctgctgct ggctgocatt tgccttctt ttgcttcaa gtccggaag
ctgcccggaga acttcaatga agccaagttc ataccttca catgtctcat ctcttctca
gtctgattct ccttcatcc agcctatgcc agcactatg gcaagtgtgt ctctgccgta
gaggtgattg ccactctgc agccagctt ggctgtctgg cgtgcatctt cttaacaag
atctacatca ttcttctcaa gccatccgc aacacatcg agagggtgc ttgacgaccc
gcagctcacg ctttcaaggt ggctgcccgg gccagctgc gccgagcaa cgtctcccgc
aagcgttcca gcagccttg aggtctccag ggatccacc cctctctc catcagcag
aagagcaaca gcgaagaccc attccacag ccgagaggc agaagcagca gcagccgctg
gccttaaccc agcaagagca gcagcagcag ccttgaacc tcccacagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	<p> cagcagcagc ccagatgcaa qcagaaggtc atctttggca gcggcacggt caccttctca ctgagctttg atgagcctca gaagaacgcc atggcccacg ggaattctac gcaccagaac tccttgagag ccagaaaaag cagcgatacg ctgacccgac accagccatt actcccgctg cagtgcgggg aaacggactt agatctgacc gtccaggaaa caggtctgca aggacctgtg ggtggagacc agcggccaga ggtggaggac cctgaagcgt tgtcccccag acttgtagtg tcagttcac agagctttgt catcagtggt ggaggcagca ctgttacaga aaacgtagtg aatcataaa atggaaggag aagactgggc tagggagaat gcagagaggt ttcttggggg cccagggatg aggaatgcc ccagactcct ttctctctgag gaagaaggga taatagacac atcaaatgcc ccgaatttag tcacaccatc ttaaatgaca gtgaattgac ccatgttccc ttt </p>	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462	<p> cagcagcagc ccagatgcaa qcagaaggtc atctttggca gcggcacggt caccttctca ctgagctttg atgagcctca gaagaacgcc atggcccacg ggaattctac gcaccagaac tccttgagag ccagaaaaag cagcgatacg ctgacccgac accagccatt actcccgctg cagtgcgggg aaacggactt agatctgacc gtccaggaaa caggtctgca aggacctgtg ggtggagacc agcggccaga ggtggaggac cctgaagcgt tgtcccccag acttgtagtg tcagttcac agagctttgt catcagtggt ggaggcagca ctgttacaga aaacgtagtg aatcataaa atggaaggag aagactgggc tagggagaat gcagagaggt ttcttggggg cccagggatg aggaatgcc ccagactcct ttctctctgag gaagaaggga taatagacac atcaaatgcc ccgaatttag tcacaccatc ttaaatgaca gtgaattgac ccatgttccc ttt </p>	Homo sapiens

120	1676	Formyl Peptide Receptor- Like Receptor	NP_001453.1	caacttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctgggtacac tggtctgagg atcctcccat tgggtggtgct tggggtcacc tttgtcctcg gggctcctggg caatgggctt gtgactgagg tggctggatt ccgcatgaca cgcacagtca ccaccatctg ttacctgaac ctggccctgg ctgacttttc ttgcacggcc acattaccat tctcattgt ctccatggcc atgggagaaa aatggccttt tggctggctt ctgtgtaagt taattcacat cgtggtggac atcaacctct ttggaagtgt ctctctgatt ggtttcattg cactggaccc ctgcatttgt gtcctgcac cagctcgggc cagaaaccac cgcactgtga gtctggccat gaaggtgac gtcggacctt ggattcttgc tctagtccct acctggccag ttttctcttt tttgactaca gtaactattc caaatgggga cacatactgt actttcaact ttgcatactg gggtggcacc cctgaggaga ggctgaaggt ggcattacc atgctgacag ccagagggat tatccggttt gtcattggct ttagcttgcc gatgtccatt gttgccatct gctatgggct cattgcagcc aagatccaca aaaaggccat gattaaatcc agccgtccct tacgggtcct cactgctggt gtggcttctt tcttcatctg ttgggttccc ttccaactgg ttgcccttct gggcaccgtc tggctcaag agatgttgtt ctatggcaag tacaataatca ttgacatcct ggttaaccca acgagctccc tggccttctt caacagctgc ctcaacccca tgccttacgt ctttgtggc caagacttcc gagagagact gatccactcc ctgcccacca gtctggagag ggccctgtct gaggactcag ccccaactaa tgacacggct gccaatctg cttcacctcc tgacagagact gagttacagg caatgtgagg atggggtcag ggatatattg agttctgttc atcctaccct aatgccagtt ccagcttcat ctacccttga gtcataattga ggcattccaag gatgcacag tcaagtattt attcaggaaa aatgcttttt tgcctctgat ttggggctaa gaaatagaca gtcaggctac taaaatatta gtgttatttt ttgttttttt acttctgctt atccccctgg gtaagtgagg tbgggaaaata caagaagaga aagaccagtg gggatttgta agacttagat gagatagcgc ataatagggt gaagacttta aagtataaag taaaatgttt gctgtagggt ttttatagct attaaaaaaa atcagattat ggaagttttc tctatttttt agtttgctaa ggttttctg tttcttttct ttacatcatg agtggacttt gcatttttct aaatgcattt tctacatgta ttaagatggt catattattc tcttcttttt atgtaaatca ttataaataa tgttcattaa gttctgaatg ttaaaactact cttgaattcc tggaataaac cacacttagt cctgatgtac tttaaatatt tatatctcac aggagtgtgt tagaatttct gtgtttatgt ttatatactg ttatttcaat ttttctacta tcttgcttaa gtttccatag aaaaaagga acaaaagaaa acttgaatg gtctctgaaa aggaattgag aagtaattcc tctgattctg ttttctggtg ttatatcttt attaaatatt cagaaaaatt c tctgattctg ttttctggtg ttatatcttt attaaatatt cagaaaaatt c	Homo sapiens
121	1681	Follicle Stimulating Hormone Receptor	NM_000145	TTCYNIALA DESFTATLPP LIVSMANGKEK WFGWFLCKL IHVVDINLF GSVFLIGFIA LDRICVLPV VWAQNHRTVS LAMKVIVGPW ILALVLTLPV FLFLT-TVTIP NGDYCTFNF ASWGGTPEER LKVAITMLTA RGIIRFVIGF SLPMISIVAIC YGLIAAKIHK KGMIKSSRPL RVLTAUVASF FICWFPPQLV ALLGTWVWKE MLFYGKYKII DILVNPTSSL AFFNSCLNPM LYVFGQDFR ERLHSLPTS LERALSEDSA PNNDTAANSA SPRAETELQA M cgctgagatc tgggagggtt tttctctgca aatgcagaaa gaaatcaggt ggatggatgc A ataattatgg cctgtctcct ggtctcttgg ctggcattcc tgagcttggg ctcaggatgt catcatcgga tctgtcactg ctctaacagg gtttttctct gccaaagag caaggtgaca gagattcctt ctgacctccc gaggaatgcc attgaactga ggtttgtcct caccagctt	Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> cgaatcatcc aaaaaggtgc attttcagga tttgggggacc tggagaaaaat agagatctct cagaatgatg tcttgagggt gatagaggca gatgtgttct ccaaccttcc caaattacat gaaattagaa ttgaaaaggc caacaacctg ctctacatca cccctgaggc cttccagaac cttcccaacc ttcaatatct gtaatatatc aacacagtta ttaagcacct tccagatgtt cacaagattc attctctcca aaaggtttta cttgacattc aagataacat aaacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gtgtgattct atggctgaat aagaatggga ttcaagaaat acacaactgt gcatccaatg gaaccaact agatgcagt aatctaagcg ataataataa tttagaagaa ttgcctaagt atgttttcca cggagcctct ggaccagtca ttctagatat ttcaagaaca aggatccatt cctgccttag ctatggctta gaaaatctta agaagctgag ggccaggtcg acttacaact taaaaaagct gctactctg gaaaagcttg tgcctctcat ggaagccagc ctacactatc cagccattg ctgtgccttt gcaaaactgga gacggcaaat ctctgagctt catccaattt gcaacaaaatc tattttaagg caagaagtgg attatatgac tcaggctagg ggtcagagat cctctctggc agaagacaat gagtcagct acagcagagg atttgacatg acgtacactg agtttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgtctccct aagccagatg cattcaacc atgtgaagat atcatggggt acaacatcct cagagtcctg atatggttta tcagcactct ggccatcact gggaacatca tagtgctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc cttgtgtgat ctctgcatg gaatctacct gctgctcatt gcatcagttg atatccatc caagagccaa tatcaaaact atgccattga ctggcaaac ggggcagggt gtgatgctgc tggcttttc actgtctttg ccagtgagct gtcagctcac actctgacag ctatcacctt ggaaagatgg cataccatca cgcattgccat gcagctggac tgcaaggtgc agtcccgcca tcttgccagt gtcattggtga tgggctggat ttttgccttt gcagctgccc tctttcccat ctttggcatc agcagctaca tgaaggtgag catctgacctg cccatggata ttgacagccc ttgttcacag ctgtatgtca tgcctctct tgtgtctcaat gtctggcct ttgtggctcat ctgtggctgc tatatccaca tctacctcac agtgcggaac cccaacatcg tgtctctctc tagtgacacc aggatcgcca agcgcattggc catgctcact ttcactgact tctctgcat ggaacctatt tcttctcttg ccatttctgc ctccctcaag tgccccctca tcaactgtgc caagcaaaag attctgctgg ttctgtttca cccatcaac tctgtgcca acccttctc ctatgccatc ttaccacaaa actttcgag agatttcttc attctgctga gcaagtgtgg ctgctatgaa atgcaagccc aaatttatag gacagaaact tcatccactg tccacaacac ccattccaag aatggccact gctcttcagc tccagagtc accagtgggt ccattacat actgtccct ctaagtcatt tagcccaaaa ctaaaacaca atgtgaaaaat gtatctgagt attgaatgat aattcagctc ttgcttttga aggtatgtc acaaggagct gacagtgtt ctacacattt catctaattt aatattctcg gcatacctt aaggtaaaat ggtcaggaaac tatcaattcc atgtgataca tttaggaagt gaattattag taacaacaat aataataaa gaatgcaata ctgtaaaaaa gcggccgcga att </p>	Homo sapiens
122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> MALLVSLLA FLISGSGCH RICHENRVF LCQESKVEI PSDLPNAIE LRFVLTCLR P IQKAFSGFG DLEKIEISQ DVEIEADV FSNLPKLEI RIEKANNLLY IPEAFQNL P NLQYLLISNT GIKHLPDVHK IHSIQKVLDD IQDNINHTI ERNSFVGLSF ESVILWLKN GIQEIHNCAF NGTQLDAVNL SDNNLEELP NDVFGASGP VLDISRTI HSLPSYGLN LKKLRARSTY NLKKIPTLEK LVALMEASLT WRRQISELHP ICKNSILRQE </p>	

123	1726	G Protein- Coupled Receptor RDC1	U67784	<p> VDYMTQARGQ RSSLAEDNES SYSRGFDMTY TEFDYLCNE VDVTCSPKP DAFNPCEMIM GYNILRVLIW FISILAITGN IIVLVILTTS QYKLTVPFRL MCNLAFAADLC IGIYLLLIAS VDIHTKSQYH NYAIDWQTGA GCDAAGFFTV FASELSVYTL TAITLERWHT ITHAMQLDCK VQLRHAASVM VMGWIFAFAA ALFPIFGISS YMKVSIICLPM DIDPLSOLY VMSLLVLNVL AFVVICGCYI HIYLTVRNPN IVSSSDTRI AKRMAMLIPT DFLCMAPISF FAISASLKVP LITVSKAKIL LVLEHPINSC ANPFLYAIPT KNFRDRFFIL LSKCGCYEMQ AQIYRTETSS TVHNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN gccaaactcgg tgggtggtcgg ggtgaatc caggccaaga ccacaggcta tgacacgcac A tgcatacatc tgaacctggc cattgccgac ctgtgggttg tccatccat cccagtcctgg gtggtcagtc tctgtcagca caaccagtgg cccatggggc agctcacgtg caaagtcaca caccatcatc tctccatcaa cctcttcagc agcattttct tccatcacgtg catgagcgtg gaccgtacc tctccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggtg cgccgtgctg tctgcactct ggtgtggctg ctggccttct gctgtctct gcctgacacc tactacctga agacctcac gctgtgctcc aacaatgaga cctactgccc gtccttctac cccgagcaca gcatcaagga gtggctgac ggcatggagc tggctcctgt tgccttgggc ttggccgttc ccttctccat tatcgtctgc ttctacttcc tgctggccag agccatctcg ggtgccagtg accaggagaa gcacagcagc cggaagatca tcttctccta cgtgtgggtc tctctgtct gctgggtgcc ctaccacgtg gcggtgctgc tggacatctt ctccatctcg cactacatcc ctttaccctg ccggctggag cagccctctc tcacggccct gcctgtcaca cagtccctgt cgctgggtgca ctgctgcgtc aaccctgtcc tctacagctt catcaatcgc aactacaggt acgagctgat gaaggccttc atcttcaagt actcggccaa aacagggtc accaagctca togatgcctc cagagtctca gagcggaggt actctgctt ggagcagagc accaaatgat ctgcccctga gaggctcttg gacgggttta cttgtttttg aacagggtga tgggccctat ggttttctag agcaaaagcaa agtagcttcg ggtccttgatg cttgagtaga gtgaagaggg gagcacgtgc cccctgcac cattyctct tctcttgat gacgcagctg tcatttggct gtgcgtgctg acagttttgc aacaggcaga gctgtgtgc acagcagtg tgtgcgtcag agccagctga ggacaggctt gcctggact ctgtaagata ggattttctg tgtttcctga atttttata tgggtgattg tatttaaat ttaagacttt attttctcac tattggtga cctataaat gtattgaaa gtaaatata ttttaaatat tgtttgggag gcatagtgct gacataatc cagagtgttg tagttttaag gttagcgtga ctttcagttt tgactaagga tgacactaat tgttagctgt ttgaaatta tataatata aatatataa tatatgccag tcttggctga aatgttttat ttaccatagt ttatatctg tgtgtgtgtt tgtaccggca cgggatatgg aacgaaaact gctttgtaac gcagtttctg acattaaatg tattgtaaa gttacattta aaataaaca aaaaactgtc tggactgcaa atctgcacac acaacgaaca gttgcatttc agagagtctt ctcaatttgt aagttatttt ttttaataa agatttttgt tctcaaaaa aaaaaaaa aaaaaa MDLHFDYAE PGNFDSISWP CNSDCLIVD TVMCPNMPNK SVLLYTLSEI YIFIVIGMI P ANSVVWVWNI QAKTGYDTH CYLINLAID LMVLTIPVW VSLVQHNQW PMGELTCKVT HLIFSINLFS GIFFITCMSV DRYLSITYFT NTPSSRKKMV RRVCILVWL LAFCVSLPDT YYLKTIVTSAS NNETYCRSFY PEHSIKEWLI GMELVSVLGF FAVPFIIAV FYELLARAI ASSDQEKHSS RKIIFSYVW FVWCWLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT </p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1	<p> MDLHFDYAE PGNFDSISWP CNSDCLIVD TVMCPNMPNK SVLLYTLSEI YIFIVIGMI P ANSVVWVWNI QAKTGYDTH CYLINLAID LMVLTIPVW VSLVQHNQW PMGELTCKVT HLIFSINLFS GIFFITCMSV DRYLSITYFT NTPSSRKKMV RRVCILVWL LAFCVSLPDT YYLKTIVTSAS NNETYCRSFY PEHSIKEWLI GMELVSVLGF FAVPFIIAV FYELLARAI ASSDQEKHSS RKIIFSYVW FVWCWLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT </p>	Homo sapiens

125

1762

Galanin
Receptor
GalR1

NM_001480

QCLSLVHCCV NPVLYSFINR NYRYELMKAF IFKYSATKGL TKLIDASRV5 ETEYSALEQN
AK
atccccgtag aatccggtcca gtctctgctc gcgcaccgtg acttctaagg ggcgcggatt A
tcagccgagc tgttttgcgc tctcagttgc agcagagaag cccctggcac ccgactctat
ccaccaccag gaagctctcc aaaagagctc tcgacctgtg gacgactcgg aatccctgga
aaagccggga gggagtcgga ggcgccagcc cactggggag gtgcgctggg gcgcgcggga
tgccggggga gccttctctg caggagccgc acagtgcact gctgcgctt gggcagtgcg
gggaagccgc gcgggaagga gcgggtccga gcaacaggtg cagcacgcag ccgctccggg
agccagggaa aaccgccggc gaagatcttg agcggttaag cggagagaaag ggtctttcca
cctgcgcggc tgcagccggc ggaatccctct tcccaggctc cgtggctggc cagcggggcg
aggcggcccg gcaggggacc ccagtgtctt cgagatcacc gtcccttccc gagaaggtcc
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aggcacggcc accggatccc cgctcccgct ggctcgccc tcgggggaaag ctcagactcc
taaaactgca ctctccgtgc ttgcgccgg gaccctggc caccgccggc gcctgctatc
ccgccctccc tcccgcgcg ccccgccgt cgcggggaca gcccgcggg ccatggagct
ggcggtcggg aacctcagcg agggcaacgc gactggccc gagcccccg ccccgagcc
cgggcccgtg ttccgcatcg gcgtggagaa cttcgtcacg ctggtggtgt tcggcctgat
cttcgcgctg ggcgtgctgg gcaacagcct agtgcaccac gtgctggcgc gcagcaagcc
gggcaagccg cggagcacca ccaacctgtt catcctcacc ctgagcatcg ccgacctggc
ctacctgctc ttctgcatcc ccttccaggc caccgtgtac gcgctgcca cctgggtgct
ggcgcccttc atctgcaagt tcatccacta cttcttcacc gtgtccatgc tggtagacat
cttcacctg gcgcgatgt ccgtggaccg ctactggcc atcgtgcact cggcgccgctc
ctctccctc aggggtgccc gcaacgcgct gctgggcgtg ggctgcatct gggcgctgct
cattgccatg gcctcgcccg tggcctacca ccctgccac aagaaggcct acgtgggtgtg
ccagaccttc tgcgtggagc agtggcccga cctcgcccac aagaaggcct acgtgggtgtg
caccttcgtc ttgggtacc tgcgtccgct cctgctcacc tgccttctgt atgccaagg
ccttaatcac ttgcataaaa agttgaagaa catgtcaaa aagtctgaag catccaagaa
aaagactgca cagacagtgc tgggtggtgtg tgggtgtgtt ggaatctcct ggcgtgccga
ccacatcatc catctctggg ctgagtttgg agttttccc ctagcgcggg ctctctcct
cttcagaatc accgccact gcctggcgta cagcaattcc tccgtgaatc ctatcattta
tgcatttctc tctgaaaatt tcaggaaagg ctataaaca gtgttcaagt gtccattcgt
caaagattca cactgagtg atactaaa gataaaaagt aataaaaagt cgaatagaca cccaccatc
aaccaattgt actcatgtgt gataaaagt agagtatcct tatggttgag ttccatata
agtggaccag acacagaaac aaacagaatg agctagtaag cgaatgctga acttggtatc
ttaacaagaa ttcaagtcgt tttaattaaa tcccacgtgt gttaaaaagt acttgatcc
atttaggaaa ttcttaggtc tagtgagaat tattttcaa ttttatttta gttctaaatt
atgtttcaga aacaaaagac aatgctgtac agttttattc ctcttcagac atgaaaggga
acatatatat tccatatata tgttcaactc ttcatagatt gtgaactggc ccatcaatat
ggtcagggaat atttgcagtc tacattttaa agccaattta tttagaaaa aaatttgagc
tttaattctt taattttaag agaagtaata ttgtgaacta tgtattttta aatatgatca
tgacacacac atgatgaatt ttttggccat ttacatagac atatctatta agtggaaaga

Homo
sapiens

126	1762	Galanin Receptor GalR1	NP_001471.1	aggctttctg aagtctgttt gcacaggtgg catttgcttc caattgttagc tagcgcacag agctttggaa gctgtgctatt atgagataca gtcgggtttac ctcaggagtc aattcagtg tgtactgggtg acctgggatg cagtagtagg cactgttgat tcaaatattat cctgtgaaac tggttttata gaggtaacaa aacagagtca gagaccactg tcttaacagt ggaagatgca aataagtttt tgagaataaa actggatttt gaaattttac attagtactt gacaaaagtt ttcatttttg cttgaaatgga acctactaaa agagagatg aaaaaaaatc agcagaggtg atgtagataa taatttctat gggaccaaaag actagacaga attcagtaag tcacatgaag taatgggtcat gctgtgacat aaagcatatt tcatgtttga tttagatgac attcaaaaa aatcatggga ctgaatatat ctgggggtatc ctatcttgta caaatgcatg ctttttcatt aaatttgtaa tgatgtttta tgaacatttc caccaaacat tatttcctct aaaaatgta atttggggtt aaaaccatca ccatttgaat ttcaaatgta gttttcatga caattttata ttgatgtgtg tttaacaatga gaaaatggca tgaataatatt aaattgtctt gtagc tgaatgtgtg tttaacaatga gaaaatggca tgaataatatt aaattgtctt gtagc	Homo sapiens
127	1808	Gastric Inhibitory Polypeptide Receptor	NM_000164	SKFGKPRSTT NLFILNLSIA DLAYLLFCIP FOATVYALPT WVIGAFICKE IHVFFTVSML VSIFTLAAMS VDRYVAIVHS RRSLSLRVSR NALLGVGCIW ALSIAMASPV AYHQGLFHP ASNQTFWEQ WDPDRHKAY VVCTFVGYL LPLLICFCY AKVLNHLHKK LKNMSKKSEA SKKTAQTVL VVVVFGISW LPHHIIHLWA EFGVFPLTPA SFLFRITAHG LAYSNSVNP IIYAFLENF RYAKQVFKC HIRKDSHLSL TKENKSRIDT PPSTNCTHV ggcagcggtg cagggggctg caggagcaag tgaccaggag caggactggg gacaggcctg A atcgcccttg cagcaaccag acctctgcgc gccctacaga tgactacctc tccgactcctg cagctgctgc tgggctctc actgtgcggg ctgtctgctc agaggcgga gacaggctct aaggggcaga cggcggggga gctgtaccag cgtgggaac ggtaccgcag ggaagtgcag gagaccttgg cagcgcgga accgccttca ggcctgcct gtaacgggtc cttcgatatg taagtctgct gggactatgc tgcacccaat gccactgccc gtcgtctctg cccctggtag ctgcccctgg accaccatgt ggtgcaggt ttgctcctcc gccagtgtg cagtgtggc caatggggac ttgggagaga ccatacaca ttgagaagaa cagagaagaa tgaggccttt ctggaccaaa ggtcatctt ggagcggttg caggtcatgt acactgtcgg ctactccctg tctctcgcca cactgtgct agccctgctc atcttgagtt tgttcaggcg gctacattgc actagaaact ataccacat caactgttc acccttcca tgcgtcgagc tgcggccatt ctcagccgag accgtctgct accctgacct ggccttacc ttggggacca ggccttggc ctgtggaaac aggcctcgc tgcctgccc acggcccaga tegtgaccca gtagtcgtg ggtgccaact acagtggtg gctgtggag ggcgtctacc tgcacagtct cctggtgctc tggtgaggct cagaggaggg ccactccgc tactactcgc tctcggtg gggggccccc ggtgttttcg tcattccctg ggtgatcgtc aggtacctgt acgagaacac gcagtgtg gagcgcaacg aagtaagcg catttggttg attatagga ccccatcct catgaccatc ttgattaatt tctcatctt tatcgcat tctggcatc tctgtccaa gctgaggaca cggcaaatgc gctgcgggga ttaccggctg aggtggctc gctccacgt gacgtgggtg ccccctgtgg gtgtccacga ggtgtgtt gctccgtga cagaggaaca ggcggggggc gccccgctg tgcgaagct cggctttgag atctctcca gctcttcca gggcttccctg gtcagcgtcc tctactgctt catcaacaa gagggtcagt cggagatccc cgtggctg caccactgcc gctggtggc cagcctgggc gaggagcaac gccagctccc ggagcgcgccc	Homo sapiens

128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p> tcccgggccc tgcctcccg ctccggcccg ggcgaggtcc ccaccagccg cggctgtgctc tcggggaccc tccagggcc tgggaatgag gccagccggg agttggaaaag ttactgctag ggggcgggat ccccggtctt gttcagttag catggattta ttgagtcca actgctgccc aggcccgta cggaggacgc tggggaatg gtgaaggaaa cagaaaaag gtccctgccc ttctggagat gacaaactgag tggggaatg agaccgtgaa ccaaaacat caagtccac acacgctatg gaatggttat gaagggaagc gagaagggg tgaaggttg tctggaggc gtctccagg aggtgacact taagccatcc ccgaaagag tgaagagat cactttgggg agagctggag aacaggattc taggcggaag cgatagcata ggcaaggcc cttgggcagg aaggcgctca gccctggctg gagtagaatt aagtcagagc caacaggttg gggagagaca gagaagtggc caggggcacc caagtggga tticatttca ggtgcattgg agattcttag gagtgctctt tgggggtaat attttattt ttaaaaaatg aggat </p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p> cngsfdmvvc wdyaapnata rascpwyllpw hhvvaagfvl rccgsdgqwg lwrhdhtqcen pekneafldq rllilerlqvm ytvgsylsla tillallils lfrrlhctrn yihlnlftsf mlraaailsr drllprpgpy lqdqalalwn qalacrtaq ivtqycvgan ytwlllvegv lhslvlvgg seeghfryyll llgwgapalf vipwvivryl yentqcwern evkaiwwiir tpilmtilin flifirilgi llsklrtrqm rcdyrlrla rstltlvpil gvhevafpv teeqargalr falkgfeifl ssfqgflvsy lycfinkevq seirrgwhhc rlrrslgeeq rolperafra lpsgsgpgev ptsrglssgt lpgpgneasr elesyc ccagattcta aatatcagga aagacgtgt gggaaaaag caggccaaa gttcttagta a aactgcagcc agggagactc agactagaat gggagtagaa agaaactgat cagagtgggt ttaattctaa gcccttttgt ggttaagtgt tgttgtgtt aacttattga atttagagtt gtattgcact ggtcatgtga aagccagagc agcaccagt tcaaaatagt gacagagagt tttgaatacc atagttagta tatagttact cagagtattt ttattaaaga aggcaaaag ccggcatag atcttactt catcttact cggttgcaa atcaatagtt agaaaatagc atctaaggga acttttaggt gggaaaaaaa atctagagat ggtctaaaat gactgttcc ttctgaactt ggaggtggac cattcatgc actgcaacat cccagtcac agtgcggatc tcccgtgaa cgatgactgg tcccaccgg ggtatcctta tgtcatcctt gcagtttatg gggttatcat tctgataggc ctcattggca acatcacttt gatcaagatc ttctgtacag tcaagtccat gcgaaacgtt ccaaacctgt tcatctccag tctggctttg ggagacctgc tctctcta aactgtgtct ccagtggatg ctatccccct ttatacagct taactctgtt ggggtgtctg ttggcaggat tggctgcaaa ctgatcccc ttcacagac ccatgctgac agatggctat tcttcacact cacggcgctc tcggcagaca gatacaaaag cattgtccgg ccaatggata tccaggcctc ccagccctg atgaagatct gectcaagc cgcctttatc tggatcatct ccatgctgct ggccattcca gaggccgtgt ttctgacct ccatcccttc catgaggaaa gcaccaacca gacctcaat agctgtgcc cataccaca ctctaagag cttcacccca aaatccattc tatggcttc ttctgtgtct tctacgtcat cccactgtcg atcatctctg tttactacta cttcatgtct aaaaatctga tccagagtgc ttacaatctt ccogtggag ggaatataca tgtcaagaag cagattgaat ccgggaag acttgccaag acagtgtctg tgttgtggg cctgttcgcc ttctgtggc tcccaatca tgtcatctac ctgtaccgt cctaccacta ctctgaggtg gacacctcca tgtccactt tgtcaccagc atctgtgccc </p>	Homo sapiens

130	1813	Gastrin- Releasing Peptide Receptor	NP_005305.1	<p>gctctctggc cttcaccaac tcttgctgta accctttgc cctctacctg ctgagcaaga gtttcaggaa acagttcaac actcagctgc tctgttgcca gcttgccctg atcatccggt ctcacagcac tggaaggagt acaacctgca tgacctccct caagagtacc aaccctcccg tggccacctt tagctctatc aatggaaca tctgtcacga gcggtatgtc tagattgacc cttgattttt ccccttgagg gacgggtttt ctttatgctt agacaggaac ccttgcatcc attgttgtgt cctgtgccc ccaagagcct tcagaatgct cctgagtgtt gtaggtgggg gtggggaggc ccaaatgatg gatcaccatt atatttgaa agaagc</p>	Homo sapiens
				<p>ILIGLIGNIT P MAINDCFLN LEVDHFHCHN ISSHSADLPV NDDWSHPGIL YVPAVYGI LIKIFCTVKS MRNVNLFIS SLALGDLILL ITCAPVDASR YLADRWLFGR IGCKLIPFIQ LTSVGVSFT LTALSADRYK AIVRPMIDQA SHALMKICKL AAFIWIISML LAIPEAVFSD LHPFHEESTN QTFISCAPYP HSNELHPKIH SMASFLVYV IPLSIISVY YFIKNLIQS AYNLPVEGNI HVKKQIESRK RLAKTVLVFV GLFAFCWLPN HVYLYRSYH YSEVDTSMH FVTSICARLL AFTNSCVNPF ALYLLSKSFR KQFNTQLLCC QPGLIIRSHS TGRSTTCMTS LKSTNPSVAT FSLINGNICH ERYV</p>	
131	1814	Cholecystoki nin B Receptor	NM_000731	<p>atggagctgc tcaagctgaa ccggagcgtg cagggaaccc gaccggggcc gggggccttc A ctgtgcgcgc cggggggcgc tctctcaac agcagcagtg tgggcaacct cagctgcgag ccccctgca ttgcgggagc cgggacacga gaattggagc tggccattag aatcactctt tacgcagtga tcttctctgat ggcgttga ggaatatgc tcatcatcgt ggtcctggga ctgagccgcc gcttgaggac tgtcaccat gcttctctcc tctcactggc agtcagcgac ctcctgctgg ctgtggcttg catgcccttc acctcctgc ccaatctcat gggcacattc atctttggca cctgcatctg caaggcgtt tctacactca tgggggtgtc tgtgagtgtg tccacgctaa gctcgtggc catgcactg gagggtaca gcgccatctg ccgaccactg caggcacgag tgtggcagac gcgctccac gcgctcgcg tgaattgagc cactggctg ctgtccggac tactcatggt gccctacccc gtgtacactg tctgtcaacc agtggggcct ctgtgcttc tgccttgtt ctctatccc ggtgtgttta tggccgtggc ctacgggctt atctctcgcg agctctactt aggccttcgc ttgacggcg acagtgcag cgcagcgcaa agcagggtcc gaaccaagg cgggctgcca ggggctgttc accagaacgg gcgttgccgg cttgagactg gcgcggttgg cgaagacagc gatggctgct acgtgcaact tccacgttcc cggcctgccc tggagctgac ggcgtgacg gctccagggc cgggatcccg ctcccgggccc accagggcca agctgctggc taagaagcgc gtgtgctgaa tgttgctggt gatcgttgtg ctttttttc tgtgttgtt gccagtttat agtgccaaca cgtggcgcg ctttgatggc ccgggtgcac accgagcact cccgggtgct cctatctctt tcattcactt gctgagctac gcctggcctt gtgtcaaccc cctgtgtctac tgttctatgc accgtcgtt tccagggctt tgcctggaaa cttgogctcg ctgctgcccc cggcctccac gactcgccc cagggtctt ccgatgagg acctccccc tccctccatt gcttcgtgt ccaggcttag ctacaccacc atcagcacac tggggcctgg ctgaggagta gaggggcctg gggggttgag gcaggggcaa tgacatgcac tgaccttcc agacatagaa aacacaaacc acaactgaca caggaaacca acacccaaag catggactaa ccccacgac agaaaaaggt agctacctg acacaagagg aataagaatg gagcagtaca tgggaaagga ggcactgctc tgatatggga ctgagcctgg cccatagaaa catgacactg accttgagga gacacagcgt ccttagcagt gaactattc</p>	Homo sapiens

132	1814	Cholecystokini nin B Receptor	NP_000722.1	<p> taccacagtgg gaactctgac aagggtgac ctgcctctca cacacataga ttaatggcac tgattgtttt agagactatg gagcctggca caggactgac tctgggatgc tctagtgttg acctcacagt gaccttccc aatcagcact gaaaatacca tcaggcctaa tctcatacct ctgaccaaca ggctgttctg cactgaaaag gtcttccagt taaggacegt ggcctggccc tctcttctct tcccaaaactg ttcaagaatc aataaatgtg ttggcttctc cctgaaaaaa aaaaaaaaaa aaaaaaaaaa aggaattcc MELLKLNRSV QGTGPGPGAS ICRPGAPLIN SSSVGNLSCE PPRIRGAGTR ELELAIRITL P YAVIFLMSVG GNMLIIIVLG ISRLRLVTN AFLSLAVSD LLLAVACMPF TLLPNLMGTF IFGTVICAV SYLMGVSVSV STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLLMVPYP VYTVVQPVGP RVLQCVHRWP SARVRQTSV LLLLLLFFIP GVWMAVAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALELTALT APGPGSGSRP TQAKLLAKR VVRMLLVIVV LFFLCWLPVY SANTWRAFDG PGAHRALSQA PISFIHLISY ASACVNPLVY CFMHRFRQA CLETCARCCP RPPRARPRAL PDEDPTPSI ASLSRLSYTT ISTLGP </p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p> ggatctggca gcgcgcgcaa gacgagcggg caccggcgcc cgaccggagc gcgccagag A gacggcgggg agccaagccg acccccagc agcgcgcgc ggcccctgag gctcaaaggg gcagcttcag gggaggacac cccactggcc aggacgccc aggtctgtct gctctgccac tcagctgcc tcggaggagc gtacacacac accaggactg cattgcccc gtgtgcagcc cctggccagt gtggaggcca gctagctgcc cagaggctgc cccccctgcc agccacagcg acctctgtg acctgtgtgc tgctgtggc ctgccagcca caggtcccc cgcctcaggt gatggacttc ctgtttgaga agtggagct ctacgggtgac cagtgtcacc acaacctgag ctgtctgcc cctcccacgg agctgggtgtg caacagaaac ttcgacaagt attcctgtctg gcgggacacc ccggccaata ccacggccaa catctcctgc cctgtgtacc tgccttgcca ccacaaagtg caacaccgtt tctgtgtcaa gagatgcggg ccgacggtc agtgggtgcg tggaccccgg gggcagcctt ggcgtgatgc ctcccagtgc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatgta cagcagcttc caggtgatgt acacagtggg ctacagcctg tccctggggg cctgtctcct cgccttgccc atcctggggg gctcagcaa gctgcactgc accgcaatg ccatccacgc gaatctgttt ggcctcttcg tgcgaaagc cagctccgtg ctggtcattg atgggtgtgt caggaccgcg tacagccaga aaattggcga cgacctcagt gtacagacct gctcagtgga tggagcgggt gctggctgcc gtgtggccgc ggtgttcattg caatatggca tctgtggccaa tgcctgacctt cccgagagg agcttcttca gctctacct cctgcacaaac ctgctgggcc ccgtccacctt cccgagagg tgggagctgg tcaaagtgtct gggcatcggc tggggtgccc ccatgtgttt cgtcgtcccc tgggagctgg ggtccctgtct gttcgagaaac gtccagtgtt ggaccagcaa tgacaacatg ggcttctgtt ggatccctgcg gttccccgtc tctctggcca tcttgatcaa ctcttctatc ttcgtccgca tctgtcagct gctcgtggcc aagctgcggg cagggcagat gcaccacaca gactacaaat tccggctggc caagtccacg ctgacctca tccctctgtc gggcgtccac gaagtgtct ttgccttcgt gacggacgag cagcccaggg gcacctgcg cctgcctcag ctcttcttcg acctcttctc cagctccttc cagggctgc tgggtggctgt cctctacag ttcttcaaca aggaggtgca gtcggagctg cggcggcggtt ggcacggctg gcgcttgagg aaagtgtctat gggaggagcg gaacaccagc aaccacaggg cctcatcttc gcccggccac ggcctccca gcaaggagct </p>	Homo sapiens

134	1834	Glucagon Receptor	NP_000151.1	gagctgtggtg cctccctaga ctctggcacc gcgggggagc ttgggacctc ggcggggagt tcccatgtgc MPPCQQRPL TFDKYSCWPD QMDGEEIEV FASFVLKASS WLLVEGLYLH MGFWWILRFP HEVVEAFVTD GKVLWEERN Ttggttgctg tggtttgttc agccttttga acttattata acttagtttt tttccctgat gaagctggta ctaagctgct atatatctaa atgttggtgt gtaaccattt caataagaat ttgggctgctg ttccaatgta aagaagcaac aaaagaacat acagtattct atatattgat taacttaagc attgattcta cagtggttga gtaaatctct cattatacat ttgaagttat tataccttct ttacatgtgg	agggtggtg ttggctgaga cagaggcgtc caacagcagc tctccctgca gggggctgtg atggaatgt LLLLLLACQ TPANTTANIS QKEVAKMYSS VLVIDGLLRT NLLGLATLPE VFLAILINFF EHAQGLTSL SNHRASSSPG gtccacttac atttcaggca gtcttcctga gctaataatg gtagtaggta actctatata attctggaca caagatttcag aacacttata cactttttat gtcaccatcta cagaagcaaa agctttacca attcatatta cttcaataac aattataaaa atggtattga atttaaagt gtgtctcaaca taagacaagt taagacaatg ctgtatgttg ttaaatacata cacttaggaa ccttcagaat	gcagccaggga gcccctctg gctggacaac ccccacctac cctgctgtg ccgtgaactg cctccaacaa QVPSAQVMD CPWYLPWHHK FQVMYTVGYS RYSQKIGDDL RSFFSLYLG IFVRIVQLLV KLFFDLFLSS HGPPSKELQF aaacactttt tatggccctg aaaataaatt taggcacaa aaaattttat aatagaggat tatagtga gagacagcca taaccttctg caccagcaaa taaatattta agcacaataa agtcacata ctgttggtga gtattgatga ttcctaagt tactaacata tagtttcctt accaaggcaa tcagtaagat ttaaatttgt gtgtgtttga gattttaatt gacagaacac gtatgtgtg atatcatgac gagtggtgtg gcgtttggcc	ttcatctgag aacctgctg ccagaaactg ccccacccc cagtggtgct gagtgagca tccccacgta aaagagctc aagtggtcac DQCHNLSLL GPDQWVRGP AILGGLSKLH VAGCRVAADF PWAVVKLFE TDYKFRLLAKS CFLNKEVOSE AETPLAGGLP tgtctttcca ctgacctgat atcttattca tttttttga ggtcacaaa ataaatattt gtcaaaaagg gtacacagag tggttaacaag ggctaagata agacagaata gccactttta ttagacaaa ataactatcc gtcccaattt aacacataa atgcatata tgcatataat taatttaaac tgattataaa tttaagtga aaggaataac aaggaatgtt ggtctgtgtg taacactaaa taagcaacac gacagaacac gattttaatt gtatgtgtg atatcatgac gagtggtgtg gcgtttggcc	gagaccccc ggacccccagc acgccccagc cagtggtgct gagtgagca tccccacgta aagtggtcac aagtggtcac RGQWRDASQ CTRNAIHANL MOYGIVANYC NVQWTSNDN TLTLPLLLGV LRRRWHRWRL RLAESPF atggttatcc gtatatgcaa agactgattg attctcctag ctcagggtg agaaaatctc caagtcctga agtcaggta aagctgagga ctccttaaa atgtatatag aacaagtata tccttaacat caagctggtg agcactcacc gaaatgatca aatgcactta gtgtaataac ctgatttaac atgtgaatgc tttaagtga aaagaatgtt ttttcatttt tagtttttag aagtggtttt attcaaaaat cactctgcta tagcactctg	Homo sapiens
135	1925	Gonadotropin -Releasing Hormone Receptor	NM_000406	ttggttgctg tggtttgttc agccttttga acttattata acttagtttt tttccctgat gaagctggta ctaagctgct atatatctaa atgttggtgt gtaaccattt caataagaat ttgggctgctg ttccaatgta aagaagcaac aaaagaacat acagtattct atatattgat taacttaagc attgattcta cagtggttga gtaaatctct cattatacat ttgaagttat tataccttct ttacatgtgg	agggtggtg ttggctgaga cagaggcgtc caacagcagc tctccctgca gggggctgtg atggaatgt LLLLLLACQ TPANTTANIS QKEVAKMYSS VLVIDGLLRT NLLGLATLPE VFLAILINFF EHAQGLTSL SNHRASSSPG gtccacttac atttcaggca gtcttcctga gctaataatg gtagtaggta actctatata attctggaca caagatttcag aacacttata cactttttat gtcaccatcta cagaagcaaa agctttacca attcatatta cttcaataac aattataaaa atggtattga atttaaagt gtgtctcaaca taagacaagt taagacaatg ctgtatgttg ttaaatacata cacttaggaa ccttcagaat	gcagccaggga gcccctctg gctggacaac ccccacctac cctgctgtg ccgtgaactg cctccaacaa QVPSAQVMD CPWYLPWHHK FQVMYTVGYS RYSQKIGDDL RSFFSLYLG IFVRIVQLLV KLFFDLFLSS HGPPSKELQF aaacactttt tatggccctg aaaataaatt taggcacaa aaaattttat aatagaggat tatagtga gagacagcca taaccttctg caccagcaaa taaatattta agcacaata agtcacata ctgttggtga gtattgatga ttcctaagt tactaacata tagtttcctt accaaggcaa tcagtaagat ttaaatttgt gtgtgtttga gattttaatt gacagaacac gtatgtgtg atatcatgac gagtggtgtg gcgtttggcc	ttcatctgag aacctgctg ccagaaactg ccccacccc cagtggtgct gagtgagca tccccacgta aaagagctc aagtggtcac DQCHNLSLL GPDQWVRGP AILGGLSKLH VAGCRVAADF PWAVVKLFE TDYKFRLLAKS CFLNKEVOSE AETPLAGGLP tgtctttcca ctgacctgat atcttattca tttttttga ggtcacaaa ataaatattt gtcaaaaagg gtacacagag tggttaacaag ggctaagata agacagaata gccactttta ttagacaaa ataactatcc gtcccaattt aacacataa atgcatata tgcatataat taatttaaac tgattataaa tttaagtga aaggaataac aaggaatgtt ggtctgtgtg taacactaaa taagcaacac gacagaacac gattttaatt gtatgtgtg atatcatgac gagtggtgtg gcgtttggcc	gagaccccc ggacccccagc acgccccagc cagtggtgct gagtgagca tccccacgta aagtggtcac aagtggtcac RGQWRDASQ CTRNAIHANL MOYGIVANYC NVQWTSNDN TLTLPLLLGV LRRRWHRWRL RLAESPF atggttatcc gtatatgcaa agactgattg attctcctag ctcagggtg agaaaatctc caagtcctga agtcaggta aagctgagga ctccttaaa atgtatatag aacaagtata tccttaacat caagctggtg agcactcacc gaaatgatca aatgcactta gtgtaataac ctgatttaac atgtgaatgc tttaagtga aaagaatgtt ttttcatttt tagtttttag aagtggtttt attcaaaaat cactctgcta tagcactctg	Homo sapiens

136	1925	Gonadotropin -Releasing Hormone Receptor	NP_000397.1	<p> aatacacaaa acaagttaac ctttgatctt tcacattaag tatctcaggg acaaaaattg acatacgtct aaacctgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggtt acaataaaat atcagatgca ccagagacac aaggcttgaa gctctgtcct gggaaaatat ggcaaacagt gcctctcctg aacagaatca aaatcactgt tcagccatca acaacagcat ccactgatg cagggaacc tcccactgt gacctgtctt ggaagatcc gagtgaagggt tactttcttc ctttttctg tctctcgac ctttaagtct tctttctgt tgaaccttca gaagtggaca cagaagaaag agaaaggaa aagctctca agaataagc tgctcttaaa acatctgacc ttagccaacc tgttgagac tctgattgtc atgccactgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aaagtctca gttatctaaa gcttttctcc atgtatgcc cagccttcat gatggtggtg atcagcctgg accgtctcct ggctatcacg aggcccttag ctttgaagaa caacagcaaa gtccggacagt ccatgggttg cctggcctgg atcctcagta gtgtctttgc aggaccacag ttatacatct tcaggatgat tcatctagca gacagctctg gacagacaaa agttttctct caatgtgtaa cacactgcag tttttcaca tgggtggcctc aagcatttta taactttttc accttcagct gcctcttcat cctccctctt tctcatcagc tgatctgcaa tgcaaaaatc atcttcaccc tgacacgggt ccttcatcag gacccccacg aactacaaat gaatcagtc aagaacaata taccagagc acggtgaag actctaaaaa tgacggttc atttgccact tcatttactg tctgctggac tccctactat gtctaggaa ttgtgtattg gtttgatcct gaaatgttaa acaggtgtgc agaccacgta aatcacttct tctttctctt tgccctttta aaccatgct ttgatccact tatctatgga tattttctc tgtga </p>	Homo sapiens
137	1945	Opsin, green- sensitive	NM_000513	<p> MANASPEQN QNHCSAINNS IPLMQNLPT LTLGKIRVT VTFPLFLLSA TFNASFLKL P QKWTQKKEG KKLSRMKLL KHLTLANLLE TLIWPLDGM WNITVQWYAG ELLCKVLSYL KLFSMYAPAF MMVVISIDRS LAITRPIALK SNSKVGQSMV GLAWILSSVF AGPOLYIFRM IHLADSSQT KVFSQCWTHC SFSQWHQAF YNFTFSCLF IIPLFIMLIC NAKIIFTLTR VLHQDPHELQ LNQSKNNIPR ARLKTLKMTV AFATSFVTCW TPYYVLGIWY WFDEMLNRL SDPVNHFFFL FAFLNPCFDP LIYGYFSL </p> <p> atggcccagc agtgagcct ccaaaggctc gcaggccgcc atccgcagga cagctatgag A gacagcacc accagcagcat cttcacctac accaacagca actccaccag aggcccttc gaaggccga attaccacat cgtccccaga tgggtgtacc acctaccag tgtctggatg atctttgtgg tcatgcatc cgttttaca aatgggcttg tgcctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctgggtga acctggcgggt cgtgacctg gcagagaccg tcatgcccag cactatcagc gtttgaacc aggtctatgg ctactcgtg ctgggccacc ctatgtgtgt cctggagggc tacccgtct cctgtgtgtg gatcacaggt ctctgtctc tggccatcat tctctgggag agatggatgg tggctgtgcaa gcccttggc aatgtgagat ttgatgcaa gctggccatc cctctcctg gctctcctg gatctgggt gctgtgtgga cagcccgcc catctttggt tggagcaggt actggcccca cggcctgaag acttcatgcg gccagacgt gtccagcggc agctcgtacc ccgggttgca gtcttacctg attgtctca tggtcacctg ctgcaccacc ccaactcagca tcatcgtgct ctgtacctc caagtgtggc tggccatccg agcgtgggca aagagctga aagagctga atccaccag aaggcagaga aggaagtgc gcgcattggt gtggtgatgg tctgtgcat ctgtctctgc tggggaccat acgctctctt cgcattgctt gctgtgtcca acctgtgcta ccccttccac </p>	Homo sapiens

138	1945	Opsin, green- sensitive	NP_000504.1	<p> ccttgatgg ctgccctgcc ggcttctttt gccaaaagtg ccactatcta caaccccggt atctatgtct ttaatgaaccg gcagtttctga aactgcatct tgcagctttt cgggaagaag gttgacgatg gctctgaact ctccagcgcc tccaaaacgg aggtctcate tgtgtcctcg gtatcgctcg catga MAQWLSLQRL AGRHPQDSYE DSTQSSIFTY TNSNSTRGPF EGPNYHIAPR WYVHLTSVWM P IFVVIASVFT NGLVLAATMK FKKLRHPLNW ILVNLAVADL AETVIASTIS VVNQVYGYFV LGHPMCVLEG YTVSLCGITG LWSLAIISWE RMMVVCCKPFG NVRFDAKLAI VGIAFSWIWA AVWTAPPIFG WSRYPHGLK TSCGPDVFSG SSYPGVQSYM IVLMVTCCIT PLSIIVLCYL QVWLAIKRAVA KQKSESTQ KAEKEVTRMV VVWVLAFCFC WGPYAFFACE AANPGYPFH PLMAALPAFF AKSATIYNPV IYVFMNRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS VSPA </p>	Homo sapiens
139	1951	Growth Hormone Secretagogue Receptor	NM_004122	<p> atgtggaacg cgacgcccag cgaagagcgg gggttcaacc tcacactggc cgacctggac A tgggatgctt ccccgggcaa cgactcgctg ggcgacgagc tgctgcagct cttcccccg ccgctgctgg cgggctgtcac agccacctgc gtggcaactc tcgtggtggg tatcgctggc aacctgctca ccatgctggt ggtgtcgcgc ttccgcgagc tgcgcaccac caccacactc taactgtcca gcatggcctt ctccgatctg ctcatcttcc tctgcagctc cctggacctc gttcgctctt ggcagtacgg gccctggaac ttccggcagc tctctgcaa actcttccaa ttcgtcagtg agagctgcac ctacgccacg gtgctaccca tcacagcgtc gacgtctgag gcctacttcg ccactctgctt cccactccgg gccaaagtgg tggtaaccaa gggcgcggtg aagctggtea tcttcgtcat ctgggcccgt gcccttctga gcgcggggcc catcttcgtg ctagtcgggg tggagcacga gaacggcacc gaccttggg acaccaacga gtgcgcggcc accgagtttg cgggtgcgtc tggactgctc acggtcatgg tgtgggtgtc cagcatcttc ttcttcttc ctgtcttctg tctcacggtc ctctacagtc tcatcgccag gaagctgtgg cggagaggcg ggcgcgatgc tgcgtgggtg gctcagctca gggaccagaa ccacaagcaa accgtgaaa tgcgtgggtg gctcagcgc gcgctcagc ttctctctgc gggctcctatc ctctccctgt gccctctccc ttctctctga MWNATPSEEP GFNLITLADLD WDASPGNDSL GDELLQLFPA PLIAGVTATC VALFWVGIAG P NLITMLVWSR FRELRITTNL YLSSMAFSDL LIFLCMPLDL VRIMQYRPWN FGDLLCKLFQ FVSECTYAT VLTITALSVE RYFAICFPLR AKVVTKGRV KLVIFVIWAV AFCSAGPIFV LVGVEHENG DPWDNECRP TEFAVRSGLL TVMVWVSSIF FELPVFCLTV LYSLIGRKLW RRRRGDAWVG ASLRDQNHQ TVKMLGGSQR ALRLSLAGPI LSLCLLPSL </p>	Homo sapiens
141	1954	Growth Hormone- Releasing Hormone Receptor	NM_000823	<p> ageagccaag gcttactgag gtaggtggag ggagccactg ctgggctcac catggaccgc A cggatgtggg gggcccacgt cttctgcgtg ttgagcccggt taccgaccgt attggggccac atgcacccag aatgtgactt catcacccag ctgagagagg atgagagtgc ctgtctacaa gcagcagagg agatgcccac caccacctg ggtgccccct cctgcccggg tttcttctct tgttgggcaa cggcaggctc tggcagatgg gtccacctcc cgtgctctga ctgtctctgag cacttcagct cagagtcagg ggtgtgaaa cgggattgta ctatcactgg ctgggtctgag ccctttccac cttaccctgt ggcctgcccc gtgcctctgg agctgctggc tgagaggagaa tcttacttct ccacagtga gattatctac accgtggggc atagcatctc tattgtagcc ctctctgtgg ccataccat cctggttctc ctacaggagg tccactgccc ccggaactac gtccacaccc agctgttcac cacttttctc ctcaaggcgg gacgtgtgtt cctgaaggat </p>	Homo sapiens

151/448

142	1954	Growth Hormone-Releasing Hormone Receptor	NP_000814.1	MDRRMWGAHV FCVLSPLPTV LGHMPECDF ITQLREDESA CLOAAEEMPN TILGCPATWD P GLLCWPTAGS GEWTLPCPD FFSHFSESG AVKRDCTITG WSEFPFPYPV ACPVPLELLA EESYFSTVK IITVGHSHS IVALFVAITI LVALRRLHCP RNVVHTQLFT TFIKAGRVE LKDAALFSD DTDHCSFSTV LCKVSAASH FATMNFSL LAEAVYLNCL LASTSPSSRR AFWWILVAGW GLPVLFDTGW VSKLAFEDI ACWDLDDTSP YWMIKGPV LSVGNFGLF LNIIRILVRK LEPAQGSILHT QSQYWRLSKS TLFLIPLFGI HYIIFNPLPD NAGLIGIRLPL ELGLGSFQGF IVAILLYCFIN QEVRTSIRK WHGHDPELLP AWRTRAKWTT PPSRAAKVLT SMC	gctgcccttt tccacagcga cgacactgac cactgcagct tctccactgt tctatgcaag gtctctgtgg ccgctccca ttctgccacc atgaccaact tcaagctggt gttggcagaa gccgtctacc tgaactgctt cctggcctcc accctcccca gctcaaggag agccttctgg tggctggctc tcgctggctg ggggctgccc gtgctcttca ctggcacctg ggtgagctgc aaactggcct tcgaggacat cgcgtgctgg gacctggagc acacctccc ctactggtgg atcatcaaa gggccattgt cctctcggtc ggggtgaact ttgggctttt tctcaatatt atccgcatcc tggtaggaa actggagcca gctcagga gctcccatc ccagtctcag tattggcgtc tctccaagtc gacactttc ctgataccac tctttggaat tcaactacac atctcaact tctgcccaga caatgctggc ctgggcatcc gctcccccct ggagctggga ctgggttctt tccagggtt cattgttggc atctctact gcttctctca ccaagaggtg aggactgaga tctcacgga gttggcatgg catgacctg agcttctgac agcctggagg accgtgcta agtgaccac gcttccccc tcggcgga aggtgctgac atctatgtgc taggtgctt catcacgcca ctggagtcca cacttgaatt tgggcagcta ccacgggtct gccatgctt ggaggagcaa gggggccaca tccccaccc agctgttacc cagcccgggg caggtgcagc ccttctccc tgtctctgca tctgactctc ttttgaggtc cctgtatgtc taccttgac ttctgtgtc cctctgtgtc tgcctctcacc cattctctt actggggcct ggggctctag cccaaggctc agaggagcca ataaacctgt aaatgaaaa aaaaaa Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	caggagaca tacaggattt aagaagccca tcatggagaa gaccttcaat tacagagata A aaaagtittt ctgtggaac aagttaaac tagatggcag ataacagact gaggagtga ctgcttctga ctgattaaa agggagtga gccataactg gcgctgctc ttccgccaat gagctccc aattctctt gctctttaga agacaagatg tgtgaggga acaagaccac tatggccagc cccagctga tgccttgggt ggtggtcctg agcactatct gcttggctac agttaggctc aacctgctg tctgtatgc cgtacggagt gacgggaagc tccacactgt gggaacctg tacatctga cctctcgtt ggcggacttg atcgtgggtg ccgtcgtcat gctatgaac atctctacc tctcatgtc caagtgttca ctgggcccgc ctctctgctt cttttggctt tccatggact atgtggccag cacagcgtcc attttcagt tcttcatcct gtgcatgtat cgtaccgtt ctgtccagca gccctcagg tactttaagt atcgtaccaa gaccagacc tcggccacca tcttgggggc ctggttcttc tcttctctg gggttattcc cattctaggc tgaatcact tcatgcagca gacctgggtg gcgcgagagg acaagtgtga gacagacttc tatgatgtca cctggttcaa ggtcatgact gccatcatca acttctacct gcccacctg ctcatgctt ggttctatgc caagatctac aagcccgtac gacaacactg ccagcaccgg gagtcatca ataggctcct ccttctctc tcagaaajta agctgaggcc agagaacccc aagggggatg ccaagaaacc agggaaaggag tctccctggg aggttctgaa	Homo sapiens

aaggaaagcca aaagatgctg gtgggtggatc tgtcttgaag tcaccatccc aaacccccaa
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gtggctagggt ttccactgga gaattgaaaa gacctccttg gccctcctgg aatggagctg
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ctttaacccc aaattcctt tggctattaa aaagtgttg gcaaaaggca tctcaaaag
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cagaatgcca tatttttgag gctgtacta ggtttatctc attaaagccc cacaacaccc
cacaggagggt taattttcta actctagtt gcagaggagc aaattgaggt tcagcaaggt
gagagaggta ccaaggtca catagctagt tatgtgagaa agttagagta cagatcctct
gggtttcag cttattgtag catatttct cgaaggga aaatgtgccc ctlttgccc
ggcatggtag ctaagccta taatcccagc atgttgagag gctgaggttg gcagatcatt
tgaggccagg agttcaagac cagtctggcc aatatggaga aacctgtct ctaataaaa
cacaaaaat atctgggcat ggtggggcat gctgtagtc ccacttactt gggaggccga
ggcacgagaa tgcctgaac ccgggaggtg gaggttgccc tgagccaaga tcacggccat
gcactccagc ctgggcaaca gagcaagact ctgtctcaa aaaaaata caatatttta
acaatgtgcc ctcttaagtg tgcaagata cacatacacg gtattcccaa ggtggtggc
agctcaaaat gatattgttg agtagcga cagctgacat ggaagtcccc tgacctacg
gaaggggacg ctttgaagga accaagtga ttttatctg tgagttctgt tgtgtttgtc
aaaaagtcac tgtaatcttt catagccata cctggttaagc aaaactagt aagacacatag
gaacatgtag ttttacttgg tgttatgtt gcaatcgggt tgattttat attttaaagc
ttggtgctaa accacaatat gtatagcaca tggagtgcct gtacaagctg atgttttga
ttttgtgttc ctctttgcat gatctgtcaa agtgagatat ttttacctgc ctaaaaatatg

Homo sapiens

144 2120 Histamine H1 NP_000852.1 Receptor

atgtttaaaa gcataactcta tgtgatttat ttatttctac ctttctgagt cttctggact
aagaagatgt tttgaaatgt accatcaaat gttacacagag tttgatattg gctttctctt
tggtttctca tcacattttgt aaatgtcttt tcaaaaaggat ttactttttt taaaaagctt
cattctcact ctgctttgca tcccccaaac ttcttcttca aaacgggggg agtttaggag
actttaatcc cggtttcaga agtgcagct ggtctgttcc caggtcagaa accattgttc
agaagacctc cctgtgagag agttgctcct cagggtccct caggaccaaa gaacactcga
aaagagcact tcacacagac aagtggctaa gtgtccatta ttacacctga acaatcaagg
caactagtgg agagaactga ttgtgagctc

VVVLSTICLV TVGLNLIVLY AVRSEKRLHT P
MSLPNSSCLL EDKMCENKT TMASPOLMPL
VGNLYIVLS VADLIVGAV MEMNIIYLIM SKWSLGRPLC LFWLSMDYVA STASIFSVEI
LCIDRYRSVQ QPLRYLKVRT KTRASATIIG AWFLSFLWVI PILGNHFMQ QTSVRREDKC
ETDFYDVTF KVTALINFY LPTLLMLWFY AKIYKAVROH COHRELINRS LPSFSEIKLR
PENPKGDAKK PKESPWEVL KRPKPDAGG SVLKSPSQTP KEMKSPVFS QEDDREVDKL
YCFPLDIVHM QAAAEGSSRD YVAVNRSHGQ LKTDEQGLNT HGASEISEDQ MLGDSQSFSR
TDSDDTTTETA PGKGLRSQS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQQLGFI
MAAFILCWIP YFIFFMVI AF CNKCCNEHLH NFIWLGYN STLNPLIYPL CNENFKKTFK
RILHRS

Homo sapiens

145 2121 Histamine H2 NM_022304 Receptor

ctctgcccct ccaactgactc cagagaggga gatccccagt acttgactcc atcacgcaga A
tgaggagcagg caacagctat ggagaggat acagctgcgt tccacacatga cccatcctgc
atgacaccaa agccacgcc agacagtgc tcgatttcta tgcaaaacct gggaagcgga
gactacccc agccccggga ggaagctagc tcttcagggg accgtctgag gactggagtt
tgatccatga acctggcttc gaggccttgc tttctctct tcttcattca tattcattcc
caacacctta gaagggtgtg cttaatitat ttctagaaaa gcagcccaga gtcagtcatt
gaagccttcc ccaacccctg gccaaaaaaa aaaaactggac acatttttggga
tctgtttgga gcttgagatc cagtgtgttg catagtgtgc acattggggag cagagaagaa
gcaaccaggg gccctgatca ggggactgag ccgtagagtc ccaggatggc acccaatggc
acagcctctt ccttttgctt ggaactctac gcattgcaaga tcaccatcac cgtggtcctt
gcggtcctca tccctcatcac cgttgcctgc aatgtggtgc tctgtctggc cgtgggcttg
aacggccggc tccgcaacct gaccaattgt ttcactgtgt cctggctat cactgacctg
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taccctgtgc tggtaacccc agtctgggtc gccatctctc tggctttaat ttgggtcact
tccattaccc tgtcctttct gtctatccac ctggggtgga acagcaggaa cgagaccagc
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tgctgggttc cctacttcac cgcgtttgtg taccgtgggc tgagagggga tgatgccatc
aatgaggtgt tagaagccat cgttctgtgg tccggctatg ccaactcagc cctgaacccc
atcctgtatg ctgcgctgaa cagagacttc cgcaccgggt accaacagct cttctgctgc

146	2121	Histamine H2 Receptor	NP_071640.1	<p>aggctggcca accgcaact ccacaaaact tctctgaggt ccaacgcctc tcagctgtcc</p> <p>aggacccaaa gccgagaacc caggcaacag gaagagaac cctgaagct ccaggtgtgg</p> <p>agtgggacag aagtcacggc cccccaggga gccacagaca ggaatagcc ctgacattg</p> <p>gtcacagga tgggggcaat gggaggggat gctactgat ggaatgatta agggagctgc</p> <p>tgttagtg gtgctggtt atgtctagg aactcttgg gacactttg taaacacct</p> <p>cttgcttaac cctcccaacg gccccaaaag gtagaaacta gctccctttt aaaaaggaca</p> <p>cattaaaatt ctcagaggac ttggcaagg cgcacagct ggggcat</p> <p>MAPNGTASSE CLDSTACKIT ITVLAVLIL ITVAGNVVVC LAVGLNRLR NLNCFIVSL P</p> <p>AITDLLGLL VLPFSAIYQL SKWSEFGKF CNIYTSIDVM LCTASILNF MISLDRYCAV</p> <p>MDPLRYPVLV TPVRVAISLV LIWVISITLS FLSIHLGWS RNETSNGNHT TSKCKVQVNE</p> <p>VYGLVDGLVT FYLPLLLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTIAAVM</p> <p>GAFIICWFPY FTAIFYRGLR GDDAINEVLE AIVLWLYAN SALNPILYAA LNRDFTGYQ</p> <p>QLFCCRLANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KIQWMSGTEV TAPQGATDR</p>	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPRK1)	NM_000912	<p>tgcagcactc accatggaat ccccgattca gatctccgc ggggagcctg gccctacctg A</p> <p>gcgcccagc gcctgcctgc cccccaacag cagcgctgg ttcccggct gggccgagcc</p> <p>cgacagcaac ggcagcgccg gctcgaggga cgcgcagctg gagcccgcc acatctcccc</p> <p>ggccatcccc gtcacatca cggcggctca ctccgtagt ttccgtctgg gcttggtggg</p> <p>caactcgtg gtcattgttc tgatcatccg atacacaaag atgaagacag caaccaacat</p> <p>ttacataatt aactggctt tggcagatgc tttagttact acaaccatgc cctttcagag</p> <p>tacggctctac ttgatgaatt cctggccttt tggggatgtg ctgtgcaaga tagtaatttc</p> <p>cattgattac tacaacatgt tcaccagcat ctccacctg accatgata gcgtggaccg</p> <p>ctacattgcc gtgtgccacc ccgtgaaggc ttgggacttc cgcacacct tgaaggcaaa</p> <p>gatcatcaat atctgcatct ggtgctgtc gtcatctgtt ggcattctct caatagtcct</p> <p>tggaggcacc aaagtcaggg aagacgtcga tgtcattgag tgctccttc agttcccaga</p> <p>tgatgactac tctggtggg acctcttcat gaagatctgc gtcttcatct ttgccttcgt</p> <p>gatccctctc ctcatcatca tegtctgcta caccctgatg atcctgcgtc tcaagagcgt</p> <p>cgggctcctt tctggctccc gagagaaaga tcgcaacctg cgtaggatca ccagactggt</p> <p>cctgggtgtg gtggcggttt tegtctctg ctggactccc attcacatat tcatcctggt</p> <p>ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat</p> <p>cgccttaggc tataccaaca tagcctgaa tcccattctc tacgcttctc ttgatgaaaa</p> <p>cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag</p> <p>cactagcaga gtcgaaata cagttcagga tctgcttac ctgagggaca tcatgggat</p> <p>gaataaacca gtagactag tctgtggagat gtcttcgtac ag</p> <p>MESPIQIFRG EPPTCAPSA CLPPNSSAWF PGWAEPSDNG SAGSEDAQLE PAHISPAIPV P</p> <p>IITAVYSWF VVGLVGNLSV MFVIRYTKM KTATNIYFN LALADALVTT TMFFQSTVYL</p> <p>MNSWPFQDVL CKIVISIDY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI</p> <p>CIWLLSSSVG ISAIVLGGTK VREDVDVIEC SLQFPDDDDYS WWDLFMKICV FIFAFVIPVL</p> <p>IIIVCYTLM I LRLKSVRLLS GSREKDRNLR RITRLVLVV AVEVVCWTPI HIFILVEALG</p> <p>STSHSTAALS SYFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV</p> <p>RNTVQDPAYL RDIDGMNKPV</p>	Homo sapiens
149	2964	Luteinizing	NM_000233	<p>ggccgcccac gaagcagcgg ttctcgccgc tgcagctgct gaagctgctg ctgctgctgc A</p>	Homo

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgccgct gccacgagcg ctgcgcgagc cgctctgccc tgagccctgc aactgcgtgc
ccgacggcgc cctgcgctgc cccggcccca cggccggtct cactcgacta tcacttgcct
acctccctgt caaagtgatc ccatctcaag ctttcagagg acttaagtgc gtacataaaa
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cactcaaaact atatggaaat ggatttgaag aagtacaaaag tcatgcattc aatgggacga
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ccttcttcat aatttgtct tgcctacatta aaatttatt tgcagtctga aaccagaaat
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tttgcataat ctttttttca ttttcgtaat ttgtattgca tctataaaaa atattagttc
ataacagatc agaaatttaa aataaggggc tttttcttca ggtagtttga aaaaacact

150	2964	Luteinizing Hormone/Chor iogonadotrop in Receptor	NP_000224.1	ctagagatgc actgttcaat tcggtagcga ctaccacat gtggctaaat taaaattaaa taaaatgaga aatgtagttt ctacagttga ctacgtttca agttctcaat ggctacgtca agttctcaat ggctacgtgt gactagtgt taccatactg gacagcacag acacagaata ttttcatcac cacagaaagt tctatctgtt ctattataga gacttttat tatgccctat ctggattcta cttatttata atttaaggtt aacatctgaa gacacatttc agcctatttg cttagtgaaa cattaaagctg tagactgtaa actcctcgtg agtaggaacc ctgtctcagt gcattttgtt ttcttgcttc ctacctcaag atcttgcaa tggtagacata caaatgtgct gagtagaat tactctgaag ttatgaaca tataatgaaa acaatttttc cggcc VKIPSAFR GLNEVIKIEI SQIDSLERIE ANAFDNLNL SEILIQNTKN LRYIEPGAFI LPLGLKLSI CNTGIRKFPD VTKVFSSEN FILEICDNLH ITTIPGNAFQ GMNSESVLK LYNGFEFVQ SHAFNGTTLT SLELKENVHL EKHNGAFRG ATGPKTLDIS STKLOALPSY GLESIQRLIA TSSYSLLKLP SRETFVNLE ATLTPSHCC AFRLPTKEQ NFSHSISENF SKOCESTRK VSNKTLYSM LAESELGWD YEGFCLPKT PRCAPEPDAF NPCEDIMGYD FLRVLIWLN ILAIMGNMTV LFVLLTSRYK LTPRFLMCN LSFADFCMGL YLLLIASVDS QTKGQYINHA IDWQTGSGCS TAGFFTFEAS ELSVYTLTVI TLERWHTITY AIHLDQKLRL RHAILIMLGG WLFSSLIAML PLVGVSNYMK VSICFPMDVE TTLSQVYILT ILILNVWAF IICACYIKIY FAVRNPELMA TNKDTKIARK MAILIFTDT CMAPISFFAI SAAFKVPLIT VTNSKVLVL FYFINSKANP FLYAIFTKF QRDFFLLLSK FGCKRRRAEL YRRKDFSAYT SNCKNGFTGS NKPSQSTLKL STLHCQGTAL LDKTRYTEC	Homo sapiens
151	2976	Lysophosphat idic Acid Receptor Edg2	NM_001401	acggcgcgct gggtcacac tgctcccgcc cggacgggt tbtgtggttg gggcgcgctg A gcagtgcca gtgagagtgt gggtgcgcgc tbtgtggcgc ggcgcgggtg ggtggcgcgtg cgttcttgcg agccggcctg caggagcgga ggctccctcg gcctcccgca cccagcggcg gaccgagccc ctggaggga gttgccgcag cggcccgccg cggcgggccct cctgtcccg gccaggtaca cagttctcc tagcatgact tacaaccaca gagctgtcat ggtgcccac ctccgtagt tctggggcggt gttcacacc ccatgaatga accacagtgc tctacttcca tccctgtaat ttcacagccc cagttcacag ccatgaatga accacagtgc ttctacaacg agtccattgc cttcttttat accgaagtg gaaagcatct tgccacagaa tggaacacag tcagcaagct ggtgatggga ctgggaatca ctgtttgtat cttcatcatg ttggccaacc tattggtcat ggtggcaatc tatgtcaacc gcgcgttcca ttttccctatt tattacctaa tggctaactt ggtgctgca gacttcttg ctgggttggc ctacttctat ctcatgttca acacaggacc caatactcg agactgactg tttagcacatg gctcctgcgt cagggcctca ttgacaccag cctgacggca tbtgtggcca acttactgga tattgcaatc gagaggcaca ttacggtttt ccgcagtcag ctccacacac ggatgagcaa cggcggggta gtgggtgtca ttgtgttcat ctggactatg gccatcgta tgggtgtctat acccagtgtg ggcgggaact gatatgtgta tatgaaaaat tbtccaaca tggcacccct ctacagtgc tcttacttag tcttctgggc cattttcaac ttgtgacct tbtgtgtaat ggtggttctc tatgtcaca tctttggcta ttttggccag aggactatga gaatgtctcg gcatagttct ggacccggc ggaatcggga taccatgat agtcttctga agactgtggt cattgtgctt ggggccttta tcatctgtg gactctgga tbtctctgt tacttctaga cgtgtgctgt ccacagtgcg acgtgtggtg ctatgagaaa tcttctcttc tcttctgta attcaactct	Homo sapiens

152	2976	Lysophosphat idic Acid Receptor Edg2	NP_001392.1	MAAISTSIPV ISQQTAMN EPQFYNESI AFFYNRSGKH LATEWNTVSK LVMGLGITVC P Homo sapiens	gcoatgaacc coatcatta ctcctaccgc gacaaagaaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaacccc accggcccca cagaaggctc agaccgctcg gcttctctcc tcaaccacac catcttggtc ggagttcaca gcaatgacca ctctgtggtt tagaacggaa actgagatga ggaaccagcc gtcctctctt ggaggataaa cagcctcccc ctaccaatt gccagggcaa ggtggggtgt gagagagag aaaagtcaac tcatgtactt aaacactaac caatgacagt attgttctct ggacccacca agacttgata tataattgaaa attagcttat gtgacaaccc tcatcttgat ccccatccct tctgaaagta ggaagttgga gtctttgcaa tggaattcaa gaacagactc tggagtgtcc atttagacta cactaaactag acttttaaaa gattttgtgt ggtttgggtc aagtcagaat aaattctggc tagttgaatc cacaacttca tttatataca ggcttccctt ttttattttt aaagatacag tttcacttaa taaacacgtt tatgcctatc agcatgtttg tgatggatga gactatggac tgcttttaaa ctaccataat tccatttttt cccttacata ggaaaactgt aagttggaa tatcttttgt ttagaaagca tgcatgtaat gtatgtatgc agtagcctt acttaaaaag attaaaaggga tactaatgtt aaatcttcta ggaaatagaa cctagacttc aaagccagta tttgtttagg tcatgaagca aacaatgctc taatcacaa attaactgtt taattaaaat ggtgtaacaa gtataaaaca gggaatgtaa gtttattacc aaagtatat gtattccaaa aaagtcatat aagatgaagc actataatat tgttcccata tatttaaaat accgaagtac attctaatta ccagtatatc agaggaaaat ttctgtagtc tttgtaaaa aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca cctttaaaaa gcaaccccca tgtatgccta tatgtgtatt gtatactttt tttacataat tggagtcata ctgtaaacag ttttataagt agatcttttt cattgcaaaa ttggcacatt ttcttatggc attaaaaatt ttacaaaaac ataattttaa tggctatat atatccatt taatggatgc aactcagttt atttaaccat tcccattgtg ttaactattt aggttgttct taattttcat tattataaag tgcagaaaat ttggtgtg
153	3038	G Protein- Coupled Receptor MRG	S78653	HSVV ttttgtattt gttgaccctt aagtctgttc attctcttct ctcagctga catttgagc A Homo sapiens	gcoatgaacc coatcatta ctcctaccgc gacaaagaaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaacccc accggcccca cagaaggctc agaccgctcg gcttctctcc tcaaccacac catcttggtc ggagttcaca gcaatgacca ctctgtggtt tagaacggaa actgagatga ggaaccagcc gtcctctctt ggaggataaa cagcctcccc ctaccaatt gccagggcaa ggtggggtgt gagagagag aaaagtcaac tcatgtactt aaacactaac caatgacagt attgttctct ggacccacca agacttgata tataattgaaa attagcttat gtgacaaccc tcatcttgat ccccatccct tctgaaagta ggaagttgga gtctttgcaa tggaattcaa gaacagactc tggagtgtcc atttagacta cactaaactag acttttaaaa gattttgtgt ggtttgggtc aagtcagaat aaattctggc tagttgaatc cacaacttca tttatataca ggcttccctt ttttattttt aaagatacag tttcacttaa taaacacgtt tatgcctatc agcatgtttg tgatggatga gactatggac tgcttttaaa ctaccataat tccatttttt cccttacata ggaaaactgt aagttggaa tatcttttgt ttagaaagca tgcatgtaat gtatgtatgc agtagcctt acttaaaaag attaaaaggga tactaatgtt aaatcttcta ggaaatagaa cctagacttc aaagccagta tttgtttagg tcatgaagca aacaatgctc taatcacaa attaactgtt taattaaaat ggtgtaacaa gtataaaaca gggaatgtaa gtttattacc aaagtatat gtattccaaa aaagtcatat aagatgaagc actataatat tgttcccata tatttaaaat accgaagtac attctaatta ccagtatatc agaggaaaat ttctgtagtc tttgtaaaa aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca cctttaaaaa gcaaccccca tgtatgccta tatgtgtatt gtatactttt tttacataat tggagtcata ctgtaaacag ttttataagt agatcttttt cattgcaaaa ttggcacatt ttcttatggc attaaaaatt ttacaaaaac ataattttaa tggctatat atatccatt taatggatgc aactcagttt atttaaccat tcccattgtg ttaactattt aggttgttct taattttcat tattataaag tgcagaaaat ttggtgtg

154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaaa aaaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgcttc attagtccc aacaacaaga tattgggtct atgtgggtag gcctggggca tcctgtacaa caggagatgt gttaggggag ggagaaacaga tcacaaaattc atggagagct atttgacag agacaaatgg caccactct gatatgtagt taatgttcag ctgttctctaa aaagcacacc caacaatggg tgttctattc cagcctagga aaatgtagag gcaagggggtc tgaggccaga ggacaccact agatggacca ctgctcctga ctgtgatgt gtggccact caggtcccag caccctatgg tctgggggaa aattgctgg ttcagccaga gggctggatg jacagtgtt gctgagtac agatatctct ctcagttagc ctttgtctcc acagtgtga ccaggaggca cagaacccaa acctggtatc tcagctctgt ggcgtctttc ttcaaaatga gacgaatga accatacata tgcagatgag catggcagtg ggacagcagg cctgcccctt gaatatcatt gcccctaaag ctgtgctggt ctcctctgt gggtctttat tgaatggcac tgtcttctgg ctgctttgct gtggggccac gaatccctac atggtatata tctctccact ggtcgtgct gacgtgatct atctttgctg ctcggcagtg gggtctttac aggtgactct gtaacttat catggagtgc tgtttttat ccttgatttc ctggccatat tgtctccctt cctctttgag gtgtgtctct gtctcctggt ggcctcagc acagagcgggt gtgtgtgtgt cctcttccc atctgttaca gatgccaccg cccaaaatac acatctaattg ttgtctgcac cctcatctgg ggcctgctt ttgcatcaa catagtaaaa tcacttttcc taacttactg gaaacatga aaggcatgt tcatattct aaagctttct gggtcttccc atgctatctt tcaacttgtg atgtgtgtgt cgagtctgac tctactcatt agattcctgt gctgctccca gcagcaaaag gccaccagg tctatgctgt ggtgcagatc tcggccccc tggtctctact ctgggcccta cccctgagcg tggcaccct cataacagat ttcaaaaatgt ttgtcaccac cctctattta atttcttgt tctcattat aaacagcagc gccaacccta tcaatttattt ctttgtgggg agcctcagaa agaaaaggct gaaggaatct ctcagagtga ttctccaaag ggcgttagca gataagccag aggtggggag gaacaaaaag gcagctggca tcgacccaat ggagcaacca cactctactc agcatgtgga gaacctctt cccagggagc acagggtcga tgtggaaaca taatttccc catctgagct ggggaattgt acacatagta accagcctg ttctgcatca taaggctgct gcatcaaatc aatgctttat tctaatacaag ttcagcttcc atggacttcc aaaaacaccc ctgtctgttt gtggttggaa ggagacattaa ctctctctc aggcagtaag cccagtttga atgtgtcca gttccaacga tgagggggaat gggaccagat gagacttcc tggtaacctg ggaatccaaa taaagaccat acaaaggcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> TQHVENLLPR EHRVDVET atgagcatcc aagaagata tctggaggga gatttgtct tctctgtgag cagcagcagc A ttcctacgga cctcgtctga gccacagctc ggatcagccc tctgacagc aatgaatgct tcgtgctgcc tgcctctgt tcagccaaca ctgcctaagt gctcggagca cctccaagcc </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	<p>cctttcttca gcaaccagag cagcagcgcc ttctgtgagc aggtcttcat caagcccgag atthtctctgt ctctgggcat cgtcagtcgt ctggaaaaa tctgtgttat cctggccgtg gtcaggaacg gcaacctgca ctccccgat tacttcttct tctgcagcct ggcgtgtgac gacatgctgg taagtgtgtc caatgccctg gagaccatca tgatcgccat cgtccacagc gactacctga ccttcgagga ccagtttctc cagcacatgg acaacatctt cgaactccatg atctgcatct ccttggtggc ctccatctgc aacctctgg ccacgcgct cgacagggtac gtcaccatct tttagcgct cccgtaccac agcatcatga ccgtgaggaa ggcctcacc ttgatcgtgg ccatctgggt ctgctgggc gtctgtggc tgggtttcat cgtctactcg gagagcaaaa tggcattgt gtgcctcatc accatgttct tgcctatgat gctcctcatg ggcaccctct acgtgcacat gttcctcttt gcgcggctgc acgtcaagcg catagcagca ctgccacctg ccgacggggt ggccccacag caacactcat gcatgaagg ggcagtcacc atcaccattc tcttggtggt gtctatcttc tggctggccc ccttcttctt ccacctggtc ctcatcatca cctgccccac caacctctac tgcattctgt acactgccc cttcaaaccc tacctgggtcc tcatcatgtg caactccgtc atcgacccac tcatctacgc ttccgggagc ctggaaatgc gcaacacctt tagggagatt ctctgtggct gcaacggcat gaacttggga tag</p>	4	3058	Melanocortin NP_005912 4 Receptor (MC4R)	<p>MSIQKKYLEG DFVFPVSSSS FLRTLLPQL GSALLTAMNA SCLPVSQPT LPNGSEHLQA P PFFSNQSSSA FCEQVFIKPE IFLSLIGIVSL LENILVILAV VRNGNLHSPM YFFLCSLAVA DMLVSVSNAL ETIMIAIVHS DYLTFEDQFI QHMDNIFDSM ICISLVASIC NLLAIAVDRY VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGWVFIVYS ESKMIVIVCLI TMFFAMMLLM GTLVHMFLF ARLHVKRIAA LPADGVAPQ QHSCMKGAVT ITILLGVFIF CWAPFFLHLV LIITCPTNPY CICYTAHENT YLVLMCNVS IDPLIYAFRS LEIRNTFREI LCGNCGMNLG atggtgaact ccaaccacg tgggatgcac acttctctgc acccttgaa ccgcagcagt A tacagactgc acagcaatgc cagtgcagtc cttggaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt gccaatagcc aagaacaaga atctgcattc acccatgtac ttttcatct gcagcttggc tgtggtgat atgctgtga gcgtttcaa tggatcagaa accattatca tcacctatt aacagtaca gatacggatg cacagagttt cacagtgaat atgataatg tcatgactc ggtgatctgt agtcccttgc tgcacatccat ttgcagcctg ctttcaattg cagtgagacag gtactttact atcttctatg ctctccagta ccataacatt atgacagta agcgggttgg gatacata agtgtatct ggcagccttg cactgttca ggcattttgt tcatcattta ctcagatagt agtctgtca tcatctgct catcaccatg ttcttcacca tgcctggctct catggttct ctctatgtcc acatgttctt catcaccatg cttcacatta agaggattgc tgtctctccc ggcactggtg ccatccgcca agtgcccaat atgaaggag cgattacctt gacctcctg attggcgtct tttgtgtctg ctgggccccca ttcttctctc acttaatat tcatctct tgcctcaga atccatattg tgtgtgtctc atgtctcact ttaacttga tctcactg atcatgtga attcaatcat cgtatctctg atttatgcac tccggagtca agaactgagg aaaccttca aagagatcat ctgttgctat ccctgggag gcccttga cttgtctagc agatattaa</p>	4	3058	Melanocortin NP_005903.1 4 Receptor	<p>YEQLFVSPV FVTLGVISLL P TIITLLNST DTDQSFVN</p>	Homo sapiens
157	3058	Melanocortin NP_005912 4 Receptor (MC4R)	<p>MSIQKKYLEG DFVFPVSSSS FLRTLLPQL GSALLTAMNA SCLPVSQPT LPNGSEHLQA P PFFSNQSSSA FCEQVFIKPE IFLSLIGIVSL LENILVILAV VRNGNLHSPM YFFLCSLAVA DMLVSVSNAL ETIMIAIVHS DYLTFEDQFI QHMDNIFDSM ICISLVASIC NLLAIAVDRY VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGWVFIVYS ESKMIVIVCLI TMFFAMMLLM GTLVHMFLF ARLHVKRIAA LPADGVAPQ QHSCMKGAVT ITILLGVFIF CWAPFFLHLV LIITCPTNPY CICYTAHENT YLVLMCNVS IDPLIYAFRS LEIRNTFREI LCGNCGMNLG atggtgaact ccaaccacg tgggatgcac acttctctgc acccttgaa ccgcagcagt A tacagactgc acagcaatgc cagtgcagtc cttggaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt gccaatagcc aagaacaaga atctgcattc acccatgtac ttttcatct gcagcttggc tgtggtgat atgctgtga gcgtttcaa tggatcagaa accattatca tcacctatt aacagtaca gatacggatg cacagagttt cacagtgaat atgataatg tcatgactc ggtgatctgt agtcccttgc tgcacatccat ttgcagcctg ctttcaattg cagtgagacag gtactttact atcttctatg ctctccagta ccataacatt atgacagta agcgggttgg gatacata agtgtatct ggcagccttg cactgttca ggcattttgt tcatcattta ctcagatagt agtctgtca tcatctgct catcaccatg ttcttcacca tgcctggctct catggttct ctctatgtcc acatgttctt catcaccatg cttcacatta agaggattgc tgtctctccc ggcactggtg ccatccgcca agtgcccaat atgaaggag cgattacctt gacctcctg attggcgtct tttgtgtctg ctgggccccca ttcttctctc acttaatat tcatctct tgcctcaga atccatattg tgtgtgtctc atgtctcact ttaacttga tctcactg atcatgtga attcaatcat cgtatctctg atttatgcac tccggagtca agaactgagg aaaccttca aagagatcat ctgttgctat ccctgggag gcccttga cttgtctagc agatattaa</p>	4	3058	Melanocortin NP_005903.1 4 Receptor	<p>YEQLFVSPV FVTLGVISLL P TIITLLNST DTDQSFVN</p>	Homo sapiens				

	(MC4R)			IDNVDSVIC SSLLASICSL LSIADVRYET IFYALQYHNI MTVKRVGIII SCIWAACVTS GILFIIYSDS SAVIICLITM FFTMLALMAS LYVHMFIMAR LHIKRIAVLP GTGAIRQGAN MKGAITLITL IGVFVVCWAP FFLHLIFYIS CPQNPYCVCF MSHENLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PLGGCLDLS RY	Homo sapiens
159	3059	Melanocortin NM_005913 5 Receptor (MC5R)		atgaattcct catttcacct gcatttcttg gatctcaacc tgaatgccac agagggccaac A ctttcaggac ccaattgtcaa aaacaagtct tcaccatgtg aagacatggg cattgctgtg gagggttttc tcaactcggg tgtcatcagc ctcttgaga acatcttggt cataggggcc atagtgaaga acaaaaacct gcaptcccc atgtacttct tctgtgcag cctggcagtg gcggacatgc tggtagcat gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtgatagc agacgccttt gtgcgccaca ttgacaatgt gttgactcc atgatctgca ttctcgtggt ggcacccatg tgcagcttac tggccattgc agtggatagg taagtcacca tcttctacgc cctgcgtac caccacatca tgacggcgag gcctcaggg gccatcatcg ccggcatctg ggccttctgc acggggtcgc gcatgtctt catcctgtac tcagaatcca cctacgtcat cctgtgcctc atctccatgt tcttcgctat gctgttcttc ctgggtgtctc tgtacataca catgttcttc ctggcgcgga ctcacgtcaa gcgcatcgcg gctctgcccg gggccagctc tgcgcggcag aggaaccagca tgcaggggcg ggtcacccgtc accatgctgc tgggcgtgtt taccgtgtgc tgggccccgt tcttcttca tctcacttta atgcttctt gccctcagaa cctctactgc tctcgttca tgtctcact caatatgtac ctcatactca tcatgtgtaa ttcctgtatg gacctctca tatatgcct ccgcagccaa gagatgcgga agacctttaa ggagattatt tgcgtccgtg gtttcaggat cgcctgcagc tttccagaa gggattaa	Homo sapiens
160	3059	Melanocortin NP_005904.1 5 Receptor (MC5R)		MNSSFHLHFL DNLNATEGN LSGPNVKNS SPCEDMGIAV EVFTLGVIS LIENILVIGA P IVKNKLNHSP MYFVCSLAV ADMVSMSSA WETITIIYLN NKLHVIADAF VRHIDNVFDS MICISVWASM CSLAIAVDR YVTFYALRY HHIMTARRSG AIIAGIWAFC TCGGIVFIFY SESTYVILCL ISMFFAMLF LVSIIYHML LARTHVKRIA ALPGASSARQ RFSMQGAVTV TMLLGVTVC WAPFELHLL MLSCPQLYC SRFMSHFMY LILMCNSVM DPLIYAFRSQ EMRKFKEII CCRGFRIACS FPRRD	Homo sapiens
161	3061	Melanocortin NM_002386 1 Receptor (MC1R)		ggagaggggtg tgagggcaga tctgggggtg ccagatgga aggaggcagg catgggggac A acccaaggcc cctggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggaacctga ggcctccaa gactccttc tgcctcttg acaggactat ggctgtgcag ggatcccca gaagacttct ggcctccctc aactccacc ccacagccat ccccgagctg gggtggctg ccaaccagac aggagcccg tgcctggag tgcctatctc tgacgggctc ttctcagcc tggggctggt gagcttggt gagaaacgc tgggtggtgg caccatcgcc aagaaccgga acctgcact accatgtac tgccttact cctgcctggc ctgtcggac ctgctggtga gcgggagcaa cgtgctggag acggccgtca tctcctctgct ggagggcggg gcactggtg cccgggctgc ggtgctgcag cagctggaca atgtcatga cgtgatcacc tgcagctcca tgcgtccag cctctgttc tggggcgcca tgcctgtga ccgtacatc tccatcttct acgcactgc ctaccacag atcgtgacc tgcgcgggg gcggcaagcc gttgcggcca tctgggtggc cagtgtcgtc ttcacacgc tctcatcgc ctactacgac cacgtggccg tctgtctg cctcgtgtc tcttctcgtg ctatgtgtg gctcatggcc gtgctgtacg tccacatgct ggcccgggcc tgcagcagc cccagggcat cgcgggctc	Homo sapiens

162	3061	Melanocortin NP_002377.2	MAVQSQRRLL	LGSLNSTPTA	IPQGLAANQ	TGARCLEVSI	SDGLELSLGL	VSLVENALVV	P
		1 Receptor	ATIAKPNLH	SPMYCFICCL	ALSDLLVSGS	NVLETAIVLL	LEAGALVARA	AVLQQLDNVI	
		(MC1R)	DVITCSSMLS	SLCFEGLAIV	DRYISIFYAL	RHSITVTLPR	ARQAVAAIW	ASVWFSTLFI	
			AYYDHVAVLL	CLVFFLAML	VLMAVLYVHM	LARACQHAQG	IARLHKRQRP	VHQGFGLKGA	
			VTLTILLGIF	FLCWGPFELH	ITLLIVLCPEH	PTCGCIFKNF	NLFALAIICN	AIIDPLIYAF	
			HSOELRRTLK	EVLTCSW					

Homo sapiens

163	3079	Melatonin Receptor type 1a	NM_005958
			ccgcgcgagc cttataaagt ggtcggggcg gcgagcagag cgggcgatgg ccctgcggcc A
			gggacgcgaa cagggaaccat gcagggcaac ggcagcgcg tgcccaacgc ctcccagccc
			gtgctccgcg gggacgcgc gcggccctcg tggctggcgt cgcgcctagc ctgctcctc
			atcttcaaca tcgtgtgtgga catctctggc aactctggc tcactcctgc ggtgatcgg
			aacaagaagc tcaggaaagc aggaacatc ttgtgtgtga gcttagcggt gcgagacctg
			gtggtggcca ttatatcgta cccgttgtgtg ctgattgtcga tattaaaca cgggtggaac
			ctgggctatc tgcactgcca agtcagtggg ttcttgatgg gcttagcgct catcggtccc
			atattcaaca tcaccggcat cgccatcaac cgctactgct acatctgcc aagtctcaag
			tacgacaaac tgtacagcag caagaactcc ctctgtacg tgcctctcat atggtccctg
			acgctggcgg ccgtccctgc caactccgt gcaggactc tccagtcga ccgaggatc
			tactcgtgca ccttcgcca gtctgtcagc tcggctaca ccatcgccgt ggtggttttc
			cacttccctg tccccatgat catagtcatc ttctgtacc tgaagaatatg gatcctgggt
			ctccagggtca gacagaggtt gaaacctgac cgcaaaccca aactgaaacc acaggacttc
			aggaattttg tcaccatggt ttgtgttttt gtctctttt ccatttgtg ggtcctctctg
			aacttcattg gcctggccgt ggcctctgac ccgcacagca tggtgccatg gatccagag
			tggctgtttg tggccagtta ctacatggcg tatttaaca gctgctcaa tgcattata
			tacgggttac tgaaccataa ttacaggaag gaatacagga gaattatagt ctgcctctgt
			acagccaggg tgttctttgt ggacagctct aacgacgttg ccgatagggt taaatggaaa
			ccgtctccac tgatgaccaa caataatgta tgaagggtgg actcgttta aaaagcacc
			acgttccggg tgagatggac acgctcgca aggcctcgct ctbgacagat gtcgtggaaa
			gcagagtgtt ggaggaaact tccaaacttt acctggctgc tgcctagtgt tctgagctaa
			cgtgctgtca gcattataaa cccctccaat ctactagtca agagaagtac agaattgtatg
			gagagtaca tgttaactga ggaatgcggt tcaggcttgg ggtgagagtga agctgctgaa
			tgcattcagg ggaaggagtg tgcaaacctt tattgtaaat gagtgccaca aaaggggtaa
			ttgcattctt cttcactttt tgaagacttc tagcagaaaa atgaaagaga atttattta
			taaatgagca aatggaacaa tttttttct gtaaatggaa caaacatga aagtggtgtg
			agtgctctct attacagagg gaaaggctga acataaatca gttaatggct catacaaat

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p> cacaaccaca accaaccacca caaacctttc agctggcaga gttagcattg gtagctata ctcatggtca taaatgtttg ccgtctata ttacaagttg tgcattgcaac cagataaaga actaaatcat aggcgggca cagtgcctca cactgtaat ctgacactt tggaggctg agtgggcag atcaactgag ttacagagtt tgagaccac ctggggcaac atgatgaaat cccatctcta aaaaaataca aaaaattatc tggacatggt gcacagcct gtaatcccaag ctactcagga gactgagtta ggagaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagtacat tccaacttag gctacagaat gagactctgc ccaaaaaa aaaaaaa </p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p> acgcgagctg ggcagggaag agagcgccc gctcagtact gcgcgcgcc tgcggctgtc A cggggccgcg cggtgcccaa agcacagcgc gggagagtct gcgatgtcag agaacggctc cttcgccaac tgcgcgagg cggggcggtg ggacagtgcg ccgggctgtg cggggctgtg cagcgcgcg cctccagga cccctcgacc tccctgggtg gctcagcgc tgcgcgcgt gctcatcgtc accacgcgc tggacgtcgt gggcaacctc ctggtgatcc tctccgtgct caggaaccgc aagctccgga acgcaggtaa ttgttcttg gtgagtctgg cattggctga cctgggtggt gccctctacc cctaccgct aatccctgt gccatctct atgaaggctg ggccctgggg gaggagcact gcaaggccag cgccttgtg atgggcctga gcgtcatcg ctctgtcttc aatacactg ccatcgccat taaccgctac tgctacatct gccacagcat ggcctaccac cgaatctacc ggcgctgga cccctctctg cacatctgct tcatctggt cctcacctg gtggccttgc tgcccaactt ctttgtggg tccctggagt acgacccacg catctattcc tgacacttca tccagaccgc cagcacccag tacacggcgg cagtgggtgt catccacttc ctctcccta tcgctgtcgt gtcctctgc tacctgcga tctgggtgct ggtgcttcag gccgcagga aagccaaagc agagagcagg ctgtgctga agccagcga cttgcgagc ttcttaacca tgttgtgtgt gtttgtgac ttggccatct gctgggtcc acttaactgc atcggcctcg ctgtggccat caaccccaaa gaaatggctc ccagatccc tgaggggcta ttgtcacta gctacttact ggcttattc aacagctgoc tgaatgcoat tgctatggg ccttgaacc aaaaacttcc cagggaatac aagaggatcc tcttggccct ttggaacca cggcactgca ttcaagatgc ttccaaaggc agccacggg aggggctgca gagccagct ccaccatca ttgtgtgca gcaccaggga gatgctctct agcctggatc tgaggcacac cagcagcatg aaaaactcat gaaatggtgg gagagagctc gctgcaaggg tgagaccagg cagcctgctg ggcacactg tctgtttgac atcacagccc caaggctggg ggaacttcat gctgggacaa gcagcccatc aacgccatgg gtccaggctg atccaggaga tgctcacagg ccacaggacc tggaaaacac tcttgggtgt gtcttgggga ttgggtgcac acaagaccaa ggaaggaca gaatgaggaa aggcctgggg cagaagagcc caactcctc tcatagctga cctctactc cctgccttg cctctctgg ctttctccc cttccccca gcatggcagg atctctctct gttagcaagg gaggtcagta ggactgggac </p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttgtaacta caaggccctc aggtggggca ggtgcagagg gc</p> <p>MSENGSFANC CEAGGWAVERP GWSGAGSARP SRTPRPPWA PALSAVLIVT TAVDVVGNLL P</p> <p>VILSVLRNRK LRNAGNLFV SLALADLVVA FYPYPLILVA IFYDGMALGE EHCKASAFVM</p> <p>GLSVIGSVEN ITAIINRYC YICHSMAYHR IYRRWHTPLH ICLIWLLTW ALLPNFFVGS</p> <p>LEYDPRIYSC TFIQTASTQY TAAVVIHFL LPIAVVIFCY LRIWLVLOA RRAKAPESRL</p> <p>CLKPSDLRSE LTMFVVFVIF AICWAPINCI GLAVAINPOE MAPQIPEGLF VTSYLLAYEN</p> <p>SCLNAIVYGL LNQNFREYK RILLALWNP R HCIQDASKGS HAEGLOSPAP PIIGVQHQAD</p> <p>AL</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>tggttgctgt ctggacctgg ctgctgatcc tgagccctgct gggagatctt aacgatcccc A</p> <p>aggagcaaca tggggccccc cctagcgggt cccacccccc atggctgtat tggctgtaag</p> <p>ctacccccagc cagaataccc accggctcta atcatcttta tggctgcgc gatggttatc</p> <p>accatcggtg tagacctaat cggcaactcc atggtcattt tggctgtgac gaagaacaag</p> <p>aagctccgga attctggcaa catcttcgtg gtcagtctct ctgtggccga tatgctgggtg</p> <p>gccatctacc catacccttt gatctgcat gccatgtcca ttgggggctg ggatctgagc</p> <p>cagttacagt gccagatgggt cgggttcata acagggtga gtgtggtcgg ctccatcttc</p> <p>aacatcgtag caatcgctat caaccgttac tgctacatct gccacagcct ccagtacgaa</p> <p>cggatcttca gtgtgcgcaa tacctgcatc tacctgggtca tcacctggat catgaccgtc</p> <p>ctggctgtcc tggcccaacat gtacattggc accatcctcg acgatcctcg cactacacc</p> <p>tgcattctta actatctgaa caacctgtc ttcaactgta ccatcgctg catccactc</p> <p>gtctccctc tctcatcgt ggggttctgc tacgtgagga tctggacca agtgcctggcg</p> <p>gcccgtgacc ctgcaggga gaatcctgac aaccaactg ctgaggttgc caatttcta</p> <p>accatggttg tgatcttct cctctttgca gtgtgctggt gccctatcaa cgtgctcact</p> <p>gtcttggttg ctgtcagtc gaagagatg gcaggcaaga tccccaactg gctttatctt</p> <p>gcagcctact tcatagccta cttcaacagc tgcctcaacg ctgtgatcta cgggctcctc</p> <p>aatgagaatt tccgaagaga atactggacc atcttccatg ctatgcgga cctatcata</p> <p>ttcttccctg gcctcatcag tgatatctgt gagatgcagg aggcccgta cctggcccg</p> <p>gccctgccc atgctcgcga ccaagctcgt gaacaagacc gtgcccatgc ctgtcctgct</p> <p>gtggaggaaa cccgatgaa tgtccggaat gttccattac ctggtgatgc tgcagctggc</p> <p>caccccgacc gtgcctctgg ccacctaaag ccccatcca gatcctctc tgcctatgc</p> <p>aaatctgcct ctaccacca caagtctgtc tttagccact ccaaggctgc ctctgggtcac</p> <p>ctcaagcctg tctctggcca ctccaagcct gctctggtc acccaagtc tgcactgtc</p> <p>tacctaagc ctgctctgt ccatctcaag ggtgactctg tccatttcaa ggtgactct</p> <p>gtccatttca agcctgactc tgttcatctt aagcctgctt ccagcaaccc caagcccatc</p> <p>actggccacc atgtctctgc tggcagccac tccaagtctg ccttcagtgc tgcaccagc</p> <p>cacctaaac ccatcaagcc agttaccagc catgctgagc ccaccactgc tgactatccc</p> <p>aagcctgcca ctaccagcca ccttaagccc gctgctgctg acaacctga gctctctgc</p> <p>tcccatggcc ccgagatccc tgcattgccc caccctgtgt ctgacgacag tgacctccct</p> <p>gagtccgacct ctagccctgc cgtggggccc accaagcctg ctgccagcca gctggagctc</p> <p>gacaccatcg ctgaccttcc tgaccttact gtagtacta ccagttacca tgattaccat</p> <p>gatgctggtg ttgttgatgt tgaagatgat cctgatgaa tggctgtgtg aaaaatgctc</p> <p>tcttaggtgg ccaggcagt</p>	Homo sapiens

168	3081	Metatonin- Related Receptor	NP_004215.1	MGPTLAVPTP YGCIGCKLPQ PEYPPALIIF MFCAMVTIV VDLIGNSMVI LAVTKNKKLR P	Homo sapiens
				NSGNIFVVS L SVADMLVAIY PYPIMLHAMS IGGWDLSQLQ CQMVGFITGL SVVGSIFNIV	
				AIAINRYCYI CHSLQYERIF SVRNTCIYIV ITWIMTVLAV LPNMVIGTIE YDPRTYTCIF	
				NYLNNPVFTV TIVCIHFVLP LLIVGFCYVR IWKVLAARD PAGQNDNQL AEVRNFLTME	
				VIFLLEFVWV CPINVLTVLV AVSPKEMACK IPNWLILAAY FIAYFNSCLN AVIYGLNEN	
				FRREYWTIFH AMRHPIIFEP GLISDIREMQ EARTLARARA HARDOAREQD RAHACPAVEE	
				TPMNVNRNPL PGDAAAGHPD RASGHPKPHS RSSAYRKSA STHKSVFSH SKAASGHLPK	
				VSGHSPASG HPKSATVYPK PASVHFKGDS VHFKGDSVHF KPDSVHFKPA SSNPKPITGH	
				HVSAGSHSKS AFSAATSHPK PIKPATSHAE PTTADYPRPA TTSHPKPAAA DNPELSASHC	
				PEIPALIAHPV SDDSDLPESA SSPAAGPTKP AASQLESDTI ADLPDPTVVT TSTNDYHDVV	
				VVDVEDDPDE MAV	
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acaaacgctt ccagcttgta gaggcggtcg tggaggacc c agaggaggag A	Homo sapiens
				acgaaggga agaggcggt ggtggaggag gcaaaagcct tggacgacca ttgttggcga	
				ggggcaccac tccgggagag gcggcgctgg gcgtcttggg ggtgcgcgc ccggagcctgc	
				agcgggacca gcgtgggaa cgcgtggga ggcgtggga ggcgtggga ctcgtctca ccaccatggt	
				cgggctcctt ttgtttttt tcccagcgt ctttttggag gtgtcccttc tccccagaag	
				ccccggcagg aaagtgttc tggcaggagc gtcgtctcag cgtcgggtgg ccagaaatgga	
				cggagatgc atcattggag cctctcttc agtcctcag cagcctcgg ccgagaaagt	
				gcccagagg aagtgtggg agatcaggga gcagtatgc atccagaggg tggaggccat	
				gtccacacg ttggataaga tcaacgcgga cccgtcttc ctgcccaca tcacctggg	
				cagtgcagc cgggactcct gctggcactc ttccgtggct ctggaacaga gcattgagtt	
				cattaggga tctctgatt ccattcgaga tgagaaggat gggatcaacc ggtgtctgc	
				tgacggccag tccctcccc caggcaggac taagaagccc atcggggag tgatcggtcc	
				cggctccagc tctgtagcca ttcaagtgc gaacctgtc cagctcttcg acatcccca	
				gacgcttat taagccaca gcctcgacct gactgacaa actttgtaca aatactctc	
				gagggttgc ccttctgaca ctttgcaggc aaggccatg cttgacatag tcaaacgtta	
				caattggacc tatgtctctg cagtccacac ggaagggaat tatggggaga gcggaatgga	
				cgttttcaa gagctggctg cccagggaag cctctgtat gccctcttg acaaatcta	
				cagcaacgct ggggagaaga gctttgaccg actcttgcg aaactccgag agaggcttc	
				caaggctaga gtggtggtct gcttctgtga aggcattgaca gtgcaggac tctgagcgc	
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				cacagggaat cctgtgttc ctgagttctg gcaacatcgg ttccagtgc ccctccagg	
				acaccttctg gaaaatccca actttaaacg aatctgcaca ggcaatgaa gcttagaaga	
				aaactatgtc caggacagta agatggggtt tgtcatcaat gccatctatg ccatggcaca	
				tgggctgcag aacatgcacc atgcccctcg ccttgcccac gtggccctct gcgatgccat	
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				gaatctgcag tacactgaag ctaatcgcta tgcattatgt caggttgga cctggcatga	
				aggagtgtcg aacattgatg attacaaaat ccagatgaac aagagtggag tgggtcggtc	

tgtgtgcagt ggccttgcgt taaagggccca gattaaggtt atacggaaaag gagaagtgcag
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tgtgcgtat ctgtagtga gcaacatga atccattata gccatgcct ttcatgctt
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gccatttac ttggggagca actacaagat catcaaaact tgccttgcag tgaatctcag
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 tccatcagca tgagactttg aaaaaaaaaa cacatgatca gccttctcatg ttccatattc
 acttatggc gatttgggga aaaggccgga acaagagatt gttacgagag tggcagaaac
 ccttttgtag attgacttgt gtttggtgcca agcgggcttt ccattgacct tcagttaaag
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 caaataatlc tatcttattg tcaatgaagt ccttgtaact agcagtgaa tgtgttccctg
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 attttttatg ttccaataat gttttataca tcaattgtcat caatatctac agaagctctt
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 gagggccgaa actcttcacc ttgatgtatg tctgatata agttgttcag cttctgttaa
 atgtgttttc ctteggcttg ttactgcctt ttgtcaata atcttgacaa tgcgtgataa
 taaatatatt ctattatt

Glutamate Receptor 1	171	3094	Metabotropic NM_000839 Glutamate Receptor 2	<p>KVPERKCEI REQYGIQVRE AMFHTLDKIN ADPVLLPNIT LGSEIRDSCW HSSVALEQSI</p> <p>EFIRDSLISI RDEKDGINRC LPDQSLPPG RTKKPIAGVI GPGSSSSVAIQ VQNLQLQFDI</p> <p>PQIAYSATS1 DLSDKTLYKY FLRWVPSDTL QARAMLDIVK RYNWTYVSAY HTEGNYGESG</p> <p>MDAFKELAAQ EGLCIAHSDK IYSNAGEKSF DRLRLKRLR LPKARVVVCF CEGMTVRGLL</p> <p>SAMRRLGVVG EESLIGSDGW ADRDEVIEGY EVEANGGITI KLOSPEVRSF DDYFLKRLRD</p> <p>TNTRNPWFPE FWQHRFQCLP PGHLLNPNE KRICTGNESL EENYVQDSKM GFVINAIYAM</p> <p>AHGLQNMHHA LCPGHVGLCD AMKPIDGSKL LDFLIKSSFI GVSGEEVWFED EKGDAFGRYD</p> <p>IMNLQYTEAN RYDVYHVGTW HEGVINIDY KIQMNKSGVV RSVCEPCLK GQIKVIRKGE</p> <p>VSCCWICTAC KENEYVQDEF TCKACDLGWV PNADLTGCEP IPVRYLEWSN IESIIAIAFS</p> <p>CLGILVTLFV TLIFVLYRDT PVVKSSSREL CYIILAGIFL GYVCPFTLIA KPTTSCYLO</p> <p>RLIVGLSSAM CYSALVTKTN RIARILAGSK KKICTRKPFE MSAAQVITIA SILISVQLTL</p> <p>VVTLLIMEPP MPILSYPSIK EYVILICNTSN LGVVAPLGVN GLLIMSCYY AFKTRNVFAN</p> <p>FNEAKYIAFT MYTTCIIWLA FVPIYFGSNY KIITTCFAVS LSVTVALGCM FTKMYIIIA</p> <p>KPERNVRSFAF TTSDVVRMHV GDGKLPCRSN TFLNIFRRKK AGAGNANSNG KSVSWSEPGG</p> <p>GQVPKGQHMW HRLSVHVKTN ETACNQTAVI KPLTKSYQGS GKSLTFSDDTS TKTLYNVEEE</p> <p>EDAQPIREFP PGSPSMVHR RVPSAATTPP LPHILTAET PLFLAEPALP KGLPPPLQOQ</p> <p>QQPPQPKSL MDQLQGWVSN FSTAIPDFHA VLAGPGGPGN GLRSLYPPPP PFOHLQMLPL</p> <p>QLSTFGEELV SPADDDDDSDS ERFKLLQEVY YEHEREGNT EDELEEEED LQAASKLTPD</p> <p>DSPALTPPSP FRDVSASGSS VPSSPVSESV LCTPPNVSYA SVILRDYKQS SSTL</p> <p>ccatgggagc gctgctgtcg ctcctggcac tgcctgcgct gtgggggtgc gtggctgagg A</p> <p>gccagagcaa gaagtgctgc accctggagg gacacttggt gctgggtggtg cgtgtccag</p> <p>tgcaccagaa gggcgggcca gcagaggact gtggtcctgt caatgagcac cgtggcatcc</p> <p>agcgctgga ggcactgctt ttgacactgg accgatcaa ccgtgacccg cactgctgc</p> <p>ctggcggtgc cctgggtgca cacatcctcg acagtgtctc caaggacaca catcgctgg</p> <p>agcaggcact ggaacttgtg cgtgctcac tgcgctcag ccaagctgag tgcacacac</p> <p>tctgccccga cggctcttat gcagcccatg gtgatgctcc cactgccatc actggtgtta</p> <p>ttggcggttc ctacagtgat gtctccatcc aggtggccaa cctctgagg ctatttcaga</p> <p>tcccacagat tagctacgcc tctaccagtg tctaccagtg ccaagctgag tgcacacac</p> <p>actttgcccc cacagtgcct cctgacttct tccaagccaa ggcctggtc gagattctcc</p> <p>gcttttcaa ctggacctat gtgtccactg aggcctctga ggcgactat ggcgagacag</p> <p>gcattgaggc ctttgagcta gaggctgtg cccgcaacat cgtgtgtggtg acctcgga</p> <p>aagtggggcg tgccatgagc cgcgggctt ttgagggtgt ggtgagctg gagctgctt</p> <p>agccagtgcc cgcgtgtgct gtctgttca cctgttgtga ggtgccccg gagctgctt</p> <p>ctgccagcca cgcctccaat gccagcttca cctgggtggc cagtgtggtt tggggggccc</p> <p>tggagagtgt ggtggcagcc agtgaggggg cgtgtgagg tgcctacc atcgagctgg</p> <p>cctcctacc catcagtgac ttgtcctct acttcagag cctggaccct tggacaaca</p> <p>gccggaaccc ctggttccgt gaattctggg agcagaggtt cgcctgcagc ttcgggcagc</p> <p>gagactgcgc agccactct ctcggggctg tgccctttga acaggagtcc aagatcatgt</p> <p>ttgtgttcaa tgcagtgtac gccatggccc atgogctcca caacatgcac cgtgccctt</p> <p>gccccaacac caccgggtc tgtgacgca tgcggcagc taacgggcgc cgcctctaca</p> <p>aggactttgt gctcaacgctc aagtttgtatg ccccttttc cccagctgac acccaaatg</p>	sapiens
			Homo sapiens		

172	3094	Metabotropic Glutamate Receptor 2	NP_000830.1	<p>aggtccgctt tgaccgcttt ggtgatggtta ttggccgcta caacatcttc acctatctgc gtgcaggcag tggcgctctat cgtaccaga aggtgggcta ctgggcagaa ggcttgactc tggacaccag cctcatccca tgggctctac cgtcagccgg ccccttgccc gcctctcgct gcagtgagcc ctgcctccag aatgaggtga agagtgtgca gccgggcgaa gtctgtgctt ggctctgcat tccgtgccag cctatgagt accgattgga cgaattcact tgcgtgatt gtggcctggg ctactggccc aatgccagcc tgactggctg cttcgaaactg cccagagagt acatccgctg gggcgatgcc tgggctgtgg gacctgtcac catcgctgc ctgggtgccc tggccaccct gtttgtgctg ggtgtctttg tgcggcaca tgcacacca gtggtcaagg cctcaggtcg ggagctctgc tacatctctgc tgggtgtggt cttctctctg tactgcata ccttcattct cattgccaa ccatccacgg cagtgtgtac cttacggcgt cttgggtttg gcactgcctt ctctgtctgc tactcagccc tgcacacca gaccaaccgc attgcacgca tcttcggtgg ggcggggag ggtgccagc ggcacgctt catcagtcct gcctcacagg tggccatctg cctggcaact atctcgccc agctgctcat cgtggtgcc tggctgggtg tggaggcacc gggcacaggc aaggagacag ccccgaaag cgggaggtg gtgacactgc gttgcaacca cgcgatgca agtatgttg gctcgtggc ctacaatgtg ctctctatcg cgctctgcac gctttatgcc tcaatactc gaaagtgcc cgaaaacttc aacgaggcca agttcattgg cttcaccatg tacaccacct gcatcatctg gctggcattg ttgcccatct tctatgtcac ctcagtgac tacgggtgac agaccaccac catgtgcgtg tcagtacgcc tcagcgctc cgtggtgctt ggctgctctc ttggcccaa gtgcacatc atcctcttcc agcgcagaa gaactgggtt agccaccggg caccaccag cgcctttggc agtgcgtcg ccagggccag ctcagcctt ggccaagggt ctggctccca gtttgtcccc actgtttgca atggccgtga ggtggtggac tcgacaactg catcgctttg a</p>	Homo sapiens
173	3095	Metabotropic Glutamate Receptor 3	NM_000840	<p>RGLEAMLFALD RINRDPHLLP GVRUGAHILD SCSDTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSDDVSIQ VANLLRLFQI PQISYASTSA KLSDKSRDY FARTVPPDFF QAKAMAEILR FFNTYVSTE ASEGDIYGETG IEAEFELEARA RNICVATSEK VGRAMSRAAF EGVVRALLQK PSARVAVLFT RSEDARELLA ASQRLNASFT WVASDGMGAL ESVVAGSEGA AEGAITIELA SYPISDFASY FQSLDPWNNS RNWFREFWE QRFCSFRQR DCAAHSLRAV PFEQESKIMF VNNAVYAMAH ALHNMHRALC PNTRLCDAM RPNVGRRLYK DFVLNVKEDA PFRPADTHNE VREDRFGDGI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLIPWASP SAGPLAASRC SEPCIQNEVK SVQPGEVCCW LCIPQCPYEV RLDEFTCADC GLGYWPNASL TGCFFELPQEY IRWGDWAVG PVTIACLGAL ATFLVLGVFV RHNATPVVKA SGRELKYILL GGVFLCYCMT FIFIAPSTA VCTLRRLGLG TAFSVCYSAL LTKNRIARI FGGAREGAQR PRFISASQV AICLALISGQ LLIVVAVLWV EAPGTGKETA PERREVWTLR CNHRDASMLG SLAYNVLLIA LCTLYAFNTR KCPEFNFEAK FIGFTMYTTC IWLALLPIF YVTSSDYRVQ TTTMCVSVSL SGSVVLGCLF APKLHILLFQ PQKNVVSURA PTSREGSAAA RASSSLGQGS GSQFVPTVCN GREVVDSTTS SL</p>	Homo sapiens

gaaacaggat tcataagat gttgacaaga ctgcaagttc ttacotttagc ttgtttttca
aaggatattt tactctcttt agggaccat aactttctaa ggagagagat taaaatagaa
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aaaacgcgga agtgcccaga aaatttcaac gaagctaagt tcataggtt taccatgtac
accacgtgca tcatctggtt ggccttctc cctatattt atgtgacatc aagtactac
agagtgcaga cgacaaccat gtgcatctct gtcagcctga gtgctttgt ggtcttggc

174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	<p>tggtttgttg caccacaggt tcacatcatc ctgttttaac ccacagaaga tggtgtcaca</p> <p>cacagactgc acctcaacag gttcagtgtc agtgaactg ggaccacata ctctcagttcc</p> <p>tctgcaagca cgtatgtgcc aacggtgtgc aatggggggg aagtccctcga ctccaccacc</p> <p>tcattctgtg gatttgtaat tgcagttcag ttcttgtgtt tttagactgt tagacaaaag</p> <p>tgctcacgtg cagctccaga atatggaaac agagcaaaaag acaaacctta gtaccttttt</p> <p>ttagaaaacag tacgataaat tattttttag gactgtatat agtcatgtgc tagaaccttc</p> <p>taggctgagt ctagtgtccc tattattaac aattcccca gaacatgaa ataacattg</p> <p>tttacagagc tgagcattgg tgacagggtc tgactactgc agtactata aaaaacaaaa</p> <p>aaaaaaacaa aaaaaaaa acaaaagaaa aaaaataaaa tacggtggca atattatgta</p> <p>accttttttc ctatgaagtt ttttgtaggt ccttgttgta actaatattag gatgagtttc</p> <p>tatgttgtat attaaagtta cattatgtgt aacagattga tttctcagc aaaaaataaa</p> <p>aagcatctgt attaatgtaa agatactgag aataaaacct tcaaggtttt</p> <p>MUTRLQVLT ALFSKGFLS LGDHNFLRE IKIEGLVIG GLFPINEXGT GTEECGRINE P</p> <p>DRGIQRLAM LFAIDEINKD DYLLPGVKLG VHILDTSRD TYALEQSLEF VRASLTKVDE</p> <p>AEYMCPSGSY AIQENIPLLI AGVIGGSYS VSIQVANLLR LFOIPQISYA STSAKLSDKS</p> <p>RYDYFARTVP PDFYQAKAMA EILRFENWTY VSTVASEGDY GETGIEAFEQ EARLRNICIA</p> <p>TAEKVGRSNI RKSYSVIRE LLOKPNARVV VLFMRSDSR ELIAAASRAN ASFTWVASDG</p> <p>WGAQESIIGK SEHVAYGAI IELASQVPRQ FDRYFQSLNP YNNHRNPWR DFWEQKFQCS</p> <p>LONKRNHRRV CDKHLAIDSS NYEQESKIMF VNAVAYAMAH ALHKMQRTLC PNTTKLCDAM</p> <p>KILDGKKLYK DYLLKINFTA PENPNKDADS IVKFDTFDGG MGRYNVENFO NVGKYSYLIK</p> <p>VGHWAETLSL DVNSIHWRSN SVPTSQCSDP CAPNEMKNMQ PGDVCCWICI PCEPYEYLAD</p> <p>EFTCMDCSG QWPTADLTGC YDLPEYIRW EDAWAIGPVT IACLGFMCTC MVTVFIKHN</p> <p>NTPLVKASGR ELCYILLFGV GLSYCMTEFF IAKPSPVICA LRRGLGSSF AICYSALLTK</p> <p>TNCIARIFDG VKNGAQRPF ISPSQVFIC LGLILVQIVM VSWLILEAP GTRRYTLAEK</p> <p>RETVILKCNV KDSSMLISLT YDVLVILCT VYAFKTRKCP ENFNEAKFIG FTMYTTCIIW</p> <p>LAFLPIFYVT SSDYRVQTTT MCISVSLSGF VVLGCLFAPK VHIILFQPK NVVTHRLHLN</p> <p>RFSVSGTGT YSQSSASTYV PTVCNGREVL DSTTSSL</p> <p>ccgagtgaca agagggtgg agagggtagc agcatgggct acgcggttg ctgccctcag A</p> <p>tccccctgct gctgaagctg cccgtgcccac gccacccag gccgtggggc caggggcctg</p> <p>ccagggtcag gagtgggctt gccgttcctg ggtctctagg gatttccag atgcctggga</p> <p>agagaggctt gggctggttg tggggccggc tggccctttg cctgctctc agcctttacg</p> <p>gccccggat gcttctctc ctgggaaagc ccaaaaggcca cccacacatg aattccatcc</p> <p>gcatagatgg ggacatcaca ctgggaggcc tgttccccgt gcattggccgg ggctcagagg</p> <p>gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggtggag gccatgctgt</p> <p>tggccctgga tggcatcaac aacgacccg accgtgctgc taacatcacg ctgggcgccc</p> <p>gcattctgga cactgtctcc agggacaccc atgcccctga gcagtcgctg acctttgtgc</p> <p>agggcctcat cgagaaggat ggacacaggg tccgctgttg cagtggcggc ccacccatca</p> <p>tcaccaagcc tgaacgtgtg gtgggtgtca tccgtgtctc agggagctcg gtctccatca</p> <p>tggtggccaa cactctcgc ctctcaaga tcccccat cagctacgcc tccacagcgc</p> <p>cagacctgag tgacaacagc cgtacagact tcttctccc cgtggtgccc tcggacacgt</p> <p>accaggccca ggccatgggtg gacatcgtcc gtgccctcaa gtggaactat gtgtccacag</p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p>ccgagtgaca agagggtgg agagggtagc agcatgggct acgcggttg ctgccctcag A</p> <p>tccccctgct gctgaagctg cccgtgcccac gccacccag gccgtggggc caggggcctg</p> <p>ccagggtcag gagtgggctt gccgttcctg ggtctctagg gatttccag atgcctggga</p> <p>agagaggctt gggctggttg tggggccggc tggccctttg cctgctctc agcctttacg</p> <p>gccccggat gcttctctc ctgggaaagc ccaaaaggcca cccacacatg aattccatcc</p> <p>gcatagatgg ggacatcaca ctgggaggcc tgttccccgt gcattggccgg ggctcagagg</p> <p>gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggtggag gccatgctgt</p> <p>tggccctgga tggcatcaac aacgacccg accgtgctgc taacatcacg ctgggcgccc</p> <p>gcattctgga cactgtctcc agggacaccc atgcccctga gcagtcgctg acctttgtgc</p> <p>agggcctcat cgagaaggat ggacacaggg tccgctgttg cagtggcggc ccacccatca</p> <p>tcaccaagcc tgaacgtgtg gtgggtgtca tccgtgtctc agggagctcg gtctccatca</p> <p>tggtggccaa cactctcgc ctctcaaga tcccccat cagctacgcc tccacagcgc</p> <p>cagacctgag tgacaacagc cgtacagact tcttctccc cgtggtgccc tcggacacgt</p> <p>accaggccca ggccatgggtg gacatcgtcc gtgccctcaa gtggaactat gtgtccacag</p>	Homo sapiens

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176	3096	Metabotropic NP_000832.1 Glutamate Receptor 4	caccttttcc ctctctggcg tccccggctg cttgtactct tggccttttc tgtgtctcct ttctggctct tgcctccgcc tctctctctc atcctctttg tccctcagctc ctccctgctt cttgggtccc accagtgtca cttttctgcc gttttcttcc ctgttctctt ctgcttcatt ctcgtccagc cattgtctcc ctctccctgc caccctcccc cagttccacca acccttaccat gttgcaaaag agaaaaaagg aaaaaaatc aaaaacaaaa aagccaaaaa cgaatacaaa tctcagagtgt gttgccaagt gctcgtctct cctggtggcc tctgtgtgtg tccctgtggc ccgcagcctg cccgcctgcc ccgcccattc gccgtgtgtc ttgcccgcct gccccgcccg tctgcccgtc gttctggccg cctgcccgcg tgcctccctc gccgaccaca cggagttcag tgcctgggtg tttggtgatg gttattgacg acaatgtgta gcgcatgatt gtttttatac caagaacatt tctaataaaa ataaacacat ggttttgcaa aaaa MPGKRGGLGW WARLPLCLLL SLYGPMPPSS LGKPKGHPHM NSIRIDGIT LGGLFPVHGR P GSEKPCGEL KKEKGIRLE AMLFALDRIN NDPDLLPNT LGARILDTC RDTHALEQSL TFVQALIEKD GTEVRCGSGG PPIITKPERV VGVIGASGSS VSIMVANILR LFKIPQISYA STAPDLSDNS RYDFFSRVVP SDTYQAQAMV DIVRALKWNV VSTVASEGSY GESGVEAFIQ KSREDGGVCI AQSVKIPREP KAGEFDKIIR RLLETSNARA VIIFANEDDI RRVLEAARRA NQTGHFFWMG SDSWGSKIAP VHLLEVAEG AVTILPKRMS VRGFDRYFSS RTLDNNRRNI WFAEFWEDNE HCKLSRHALK KGSHVKKCTN RERIGQDSAY EQEGKVQFVI DAVIAMGHAL HAMHRDLCPG RVGLCPRMDP VDGTLQLLKYI RNWNFSGIAG NPVTFNENG APGRYDIYQY QLRNDSAEYK VIGSWTDHLH LRIERMHWPG SQQLPRISC SLPCQPGER KTVKGMPCW HCEPCTGYQY QVDRYCTKC PYDMRPTENR TGCRIPIIK LEWGSPWAVL PLFLAVVGLA ATLFWITFV RYNDTPIVKA SGRELSYVLL AGIFLCYATT FLMAEPDLG TCSLRRIFLG LGMSISYAAL LTKNRIYRI FEQKRSVSA PRFISPASQL AITFSLISLQ LLGICVWFVV DPHSHVDFQ DQRTLDREA RGVLCDISD LSLICLLGYS MLLMVTCTVY AIKTRGVPET FNEAKPIGFT MYTTCIVWLA FIPIFFGTSQ SADKLYIQTT TITVSVSLSA SVSLGMLYMP KVYIILFHE QNVPKRRSL KAVVTAATMS NKFTQKGNFR PNGEAKSELC ENLEAPALAT KQTYVYTNH AI	Homo sapiens
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			AEIQPLPAIE VTGGAQPAAG AQAGDAARE SPAAGPEAAA AKPDLEELVA LTPPSPFRDS	
			VDSGSTTPNS PVSESALCIP SSPKYDTLII RDTQTSSSSL	

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181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> gaattcccaa caccaggta atttttgtat ttttagtaga gattgggttt caccatgttg A gccaggatgg tctccatctc ttgacctcgg gatcctcctg gcttgggtctc caaagtgtct gggattacag gcatgagtca ccatatccag ccaactgcag tcatcttat 999gcaaca cttggctgaa cccagggttt ctaagagatac aaacctatgg gcaacaccaa gcatttcta ggaataggca cctgggtgac tccaggcatt ctaataatag agacacctgg gcgaactcag </p>	Homo sapiens

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182	3099	Metabotropic NP_000835.1 Glutamate Receptor 7	tactgtgtat gccatcaaga ctctgggtgt acccgagaat ttaacgaag ccaagcccat tggattcact atgtacacga catgtatagt atggcttgcc ttcattccaa ttttttttgg caccgctcaa tcagcggaag agctctacat acaaaactacc acgcttaaca tctccatgaa cctaagtga tcagtggcgc tggggatgct atacatgccc aaagtgtaca tcacagcagc ccaccctgaa ctcaatgtcc agaaacggaa gcgaagctga cggcggtag tcacagcagc caccatgtca tcgaggctgt cacacaaacc cagtgacaga cccaacggtg aggcaaaagac cgagctctgt gaaaacgtag acccaaacag ccctgctgca aaaaagaagt atgtcagtta taataaacctg gttatctaac ctgttccatt ccatggaacc atggaggagg aagaccctca gttattttgg caccacacct ggcataggac tctttggtcc tacccgcttc ccatcacccg aggagcttcc ccggccggga gaccagtgtt agaggatcca agcgacctaa acagctgctt tatgaaatat cottacttta tctgggctta ataagtcact gacatcagca ctgcacaact ggctgcaatt gtggaccttc cctaccaaag ggagtgtga aactcaagtc ccgcccggc tctttagaat ggaccactga gagccacagg accgttttgg ggctgacctg tcttattacg tatgtacttc taggttgcaa ggttttgaaa ttttctgtac agttgtgag gacctttgca ctttgccatc tgatgtcgta cctcggttca ctgtttgttt tcgaatgctt tgttttcata gagccctatt ctctcagacg gtggaatatt tggaaaaatt ttaaaaaaat taaaatttta aagcaatctt ggcagactaa aacaagtaca tctgtacatg actgtataat tacgattata gtaccactgc acatcatgtt tttttttttt aagacaaaaa agatgtttta agacaaaaa ctgtgtgag aagtatgcc ccacctatct ttggtatatg ataggttaca taaaagggaag gtattggctg aactgaatag aggtcttgat ctttggaaat catgccagta atgtatttta cagtacatgt ttattatgtt caatatgtt atttgtgttc tcttttgta ttttaatta gggtatatga atatttgca ataatttta taattattaa gctgtttgaa ggaagaata tggatttttc atgtcttgag gttttgttca tggccctttt gactgacag tgtgataagg actttaggaa aaaaagcatg tatgtttttt actgttttga ataatgactt tctgttaact tgctgcttat gtgccaattt agtgaaaaa acaaacctt gctgaaaaat tccctcttc cattctctt caattctgtg atattgtcca agaattgata aataaggaat tc MVQLRKLRLV LTMKPPCCV LEVLICALAA AARGQEMYAP HSIRIEGDTV LGGLFPVHAK P GPSGVPCGDI KRENGIHRLE AMLYALDQIN SDNLLPNVT LGARILDTCs RDTYALEQSL sapiens TFVQALIQKD TSDVRCNGE PPVFVKPEKV VGVIGASGSS VSIMVANILR LFQIPQISYA STAPELSDDR RYDFSRVP PDSFQAQAMV DIVKALGWNY VSTLASEGSY GEKGVESFTQ ISKEAGGLCI AQSVRIQPER KDRTFIDFDRI IKQLLDTFNS RAVVIFANDE DIKQILAAAK RADQVGHFLW VGSDSWGSKI NPLQHEDIA EGAITIQPKR ATVEGFDAYF TSRTLENNRR NWFAFYWEE NFNCKLTISG SKKEDTRKC TQBERIGKQVF NYEQEGKVQF VTDAYAMAH ALHNMNKDLC ADYRGVCPEM EQAGGKKLLK YIRNVNFGS AGTFVMFNKN GDAPGRYDIF QYQTTNTSNP GYRLIGQWTD ELQLNIEDMQ WKGVREIPA SVCTLPCKPG QRKTKQKTP CCWTCPCDG YQYQFDEMT C QHCPYDQRPN ENRFGQDIP I IKLEWHSPW AVTPVFLAML GIATIFVMA TFIRYNDTPI VRASGRELSY VLLTGIFLCY IITFLMIAP DVAVCSFRV FLGLNCISY AALLTKNRI YRIFEQKKS VTAPRLISPT SQLAITSLI SVQLIGVFIW FGVDPENIII DYDEHNTMNP EQARGVLKCD ITDQIICSL GSYLLMVTCT TVYAIKTRGV PENFNEAKPI GFTMYTTCIV WLAFIPFFG TQSAEKLYI QTTTLTISMN LSASVALGML YMPKVYLIIF HPELNVQKRK RSFRAVVTA TMSRSLSHKP SDRENCEAKT ELCENVDPNS
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184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	acttgtagtg tttatgcaa taaacagaga ggtgtccag agaatttcaa tgaagccaaa cctattggat ttaccatgta taccacctgc atcatttggg tagctttcat ccccatcttt tttggtacag ccagtcagc agaaaagatg tacatccaga caacaacact tactgtctcc atgagtttaa gtgcttcagt atctctggc atgctctata tgcccaaggt ttatatata atctttcatc cagaacagaa tgttcaaaaa cgcaagagga gtttcaagc tgggtgaca gctgccacca tgcaaaagcaa actgatccaa aaaggaatg acagaccaa tggcgagggtg aaaagtgaac tctgtgagag tcttgaacc aacacttct ctaccaagac aacataatc agttacagca atcattcaat ctgaacacag gaaatggcac aatctgaaga gacgtggtat atgatcttaa atgatgaaca tgagaccgca aaaattcact cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgg aaggaacaaa aattagccat gagccaaaag tatcaataaa cggggagtgaga aaaaacccgt ttatacaat aaaaccaatg agtgtcaagc taaagtattg cttattcatg agcagttaaa acaaatcaca aaaggaaaaa taatgttagc tcgtgaaaaa aatgctgttg aaataataa tgtctgagt tattcttgta ttttctgtg atttgagaaa ctcctgttcc tgtccacat tgttaactt gtataagaca atgagtctgt ttcttgtaat ggtgaccag atbgaagccc tgggtgtgtgc taaaaataa tgaatgatt gatgcatgca atttttata caaataattt atttctaata ataaaggaat gtttgcaca aaaaaaaaa aaaaactcga g	RVNDDIILGG LFPVHAKGER P RILDTCSDRT YALEQSLTFV MVANILRLFK IPQISYASTA LASEGNYGES GVEAFTQISR FANEDDIRRI LEAAKLNQS FDRYFRSRTL ANRRNVWFA KVQFVIDAVY SMAYALHNMH ARDSSYEQEG FNENGADAPGR YDIFQYQITN FNGSAGTPVT KPGERKKTVK GVPCCWHCER HPASVCSLPC SPWAWPVFV AILGIIATTF LPIIKLEWH AADPTIICSF RRVFLGLGMC LCYSITFLMI SPASQLVITF SLISVQLLV FWFVVDPPH VTCTVYANKT RGVPETFNEA SMISASVSLS GMLYMPKVYI VKSELCESE TMTSTTKTTY	Homo sapiens
185	3212	Opioid mu- type Receptor	ggaattccgg ctataggcag aggagaatgt cagatgctca gctcggtccc ctcgcctga A cgctctctc tgtctcagc agcactgggt tctgtaagaa acagcaggag ctgtggcagc ggcgaagga agcggctgag gcgcttgga ccgaaaaagt ctgggtgctc ctggctacct cgcacagcg tgcccgccc gccgtcagta ccatggacag cagcgtgccc cccacgaacg ccagcaatg cactgatgcc ttggcgctact caagtgtctc cccagcacc agccccggtt cctgggtcaa cttgtccac ttagatggca acctgtccga ccatgctggt cogaaccgga ccaactggg cgggagagac agcctgtgcc ctcgacccg cagtccctcc atgatcacgg ccatcacgat catggccctc tactccatcg tgtgctggtt ggggctcttc ggaacttcc	ggaattccgg ctataggcag aggagaatgt cagatgctca gctcggtccc ctcgcctga A cgctctctc tgtctcagc agcactgggt tctgtaagaa acagcaggag ctgtggcagc ggcgaagga agcggctgag gcgcttgga ccgaaaaagt ctgggtgctc ctggctacct cgcacagcg tgcccgccc gccgtcagta ccatggacag cagcgtgccc cccacgaacg ccagcaatg cactgatgcc ttggcgctact caagtgtctc cccagcacc agccccggtt cctgggtcaa cttgtccac ttagatggca acctgtccga ccatgctggt cogaaccgga ccaactggg cgggagagac agcctgtgcc ctcgacccg cagtccctcc atgatcacgg ccatcacgat catggccctc tactccatcg tgtgctggtt ggggctcttc ggaacttcc	Homo sapiens

186	3212	Opioid mu- type Receptor	NP_000905.1	MDSSAAPTNA SNCTDALAYS SCSPPSPGS WVNLSHLDGN LSDPCGPNRT NLGRDSLCP P	Homo sapiens
				tggtcatgta tgtgattgtc agatacacca agatgaagac tgccaccaac atctacatt tcaaccttgc tctggcagat gccttagcca ccagtaacct gccctccag agtgtgaatt acctaatggg aacatggcca tttagaacca tcccttgcca gatagtgc tccatagatt actataacat gttcaccagc atattcacc tctgcaccat gagtgtgat cgatacattg cagtctgcca cctgtcaag gccttagatt tctgcacct ccgaatgcc aaaattatca atgtctgcaa ctggatcttc tcttagcca ttggtcttc cgtaatgttc atggctacaa caaatacag gcaaggttcc atagattgta cactaacatt ctctcatcca acctggtact gggaaaacct cgtgaagatc tgtgttttca tcttcgctt cattatgcca gtgtcatca ttacctgtg ctatggactg atgattcttc gcctcaagag tglccgcatg ctctctggt ccaaagaaaa ggacaggaat cttcgaagga tcaccaggat ggtgctggtg gtggtggctg tgttcatcgt ctgctggact ccatttaca ttacgtcat cattaaagcc ttggttacaa tcccagaac tacttccag actgttctt ggcactctg cattgtctta ggttacaaa acagctgct caaccagtc ctttatgcat ttctggatga aaacttcaaa cgatgcttca gagagtctg tatcccaacc tcttcaaca ttgagcaaca aaactccact cgaattcgtc agaacactag agaccacccc tcacggcca atacagtga tagaactaat catcagctag aaaatctgga agcagaaact gctcgttgc cctaaacagg tctcatgcca ttccgacctt caccaagctt agaagccacc atgtatgtg agcaggttg cttaagaat gtgtaggagg ctctaattct ctaggaaagt gctactttt aggtcatcca acctcttcc tctctggcca ctctgctctg cacattagag ggacagccaa agtaagtgg accatttga aggaaggaa tataccacac cgaggagtcc agtttgcga agacacccag tggaacaaa accatcgtg gtatgtgaat tgaagtcac ataaaagggt acccttctgt ctgtaagatt ttatttcaa gcaaatattt atgacctcaa caaagaagaa ccatcttttg ttaagttcac cgtagtaaca cataaagtaa atgtacctc tgatcaaacg accttgaatg gaaggtccga gtctttttag tgtttttgca agggaaatga tccattatc tattttagac tttaacttc aacttaaat tagcatctgg ctaaggcatc atttccacct ccatctctg gttttgtatt gtttaaaaa aataacatct ctttcatcta gctccataat tgcaaggga gagattagca tgaaggtaa tctgaacac agtcatgtgt canctgtaga aaggttgatt ctcatgcat ncaaatactt ccaagagtc atcatgggg atttttcat cttaggcttt cagtggttg ttcctggaat tc	
187	3223	Muscarinic acetylcholin e Receptor M1	NM_000738	atgaacactt cagccccacc tgctgtcagc cccaacatca ccgtctctgg accaggaaag A ggtccctggc aagggcctt cattgggac accacgggcc tctgtctgct agcacagtg acaggcaacc tgctgttact catctcttc aaggtcaaca cggagctcaa gacagtcaat aactacttcc tgctgagcct ggctgtgct gacctcatca tgggtacctt ctccatgaac ctctatacca cgtactctgt catggggccac tgggtctctg gcaagctggc ttgtgacctc	Homo sapiens

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p> tga MNTSAPPAVS PNITVLAPGK GPWQVAFIGI TTGLLSLATV TGNLLVLISF KVNTLKTVN P NYFLLSLACA DLIIGTFSMN LYTYLLMGH WALGTLACDL WLALDYVAN ASVMNLLIS FDRYFSVTRP LSYRAKRTPR RAALMIGLAW LVSFVLWAPA ILFWQYLVGE RTMLAGQCYI QFLSQPIITF GTAMAAFYLP VTMCTLYWR IYRETERRAR ELAALQGSSET PGKGGSSSS SERSQPGAEG SPETPPGRCC RCCRAPRLQ AYSWKEEEE DEGSMESLTS SEGEPPGSEV VIMPMVDPE AQAPTKQPPR SSPNTVKRPT KGRDRAGKG QKPRGKEQLA KRKTFSLVKE KKAARTLSAI LLAFILTWTP YNIMVLVSTF CKDCVPETLW ELGYWLCYVN STINPMCYAL CNKAFRDTRF LLLLCRWDR RWRKIPKRP SVHRTPSRQC atgaataact caacaaactc ctctaacaat agcctggctc ttacaagtcc ttataagaca A tttgaagtgg tggttattgt cctgggtggt ggatccctca gtttgggtgac cattatcggg aacatcctag tcatggtttc cattaaagtc aaccgccacc tccagaccgt caacaattac tttttattca gcttggcctg tctgacacct atcataggtg ttttctccat gaacttgtac accctctaca ctgtgattgg ttactggcct ttgggacctg ttgtgtgtga cctttggcta gacctggact atgtggtcag caatgcctca gttatgaatc tgcctcatcat cagctttgac aggtacttct gtgtcacaaa acctctgacc taccagtica agcggaccac aaaaatggca ggtatgatga ttgcagctgc ctgggtcctc tcttctatcc tctgggtccc agccattctc ttctggcagt tcatgtgagg ggtgagaact gtggaggatg gggagtgtga cattcagttt ttttccaatg ctgctgtcac ctttggtagc gctattgcag ccttctattt gccagtgtac atcatgactg tgcctattg gcacatatcc cgagccagca agagcaggat aaagaaggac aagaaggagc ctgttgccaa ccaagacccc gtttctccaa gtctgtgtaca aggaaggata gtgaagccaa acaataacaa catgccccag agtgccagat gcctggagca caacaaaaac cagaatggca aagcccccaag ggatcctgtg actgaaaaact gtgttcaggg agaggagaag </p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739		Homo sapiens

Homo
sapiensHomo
sapiensHomo
sapiensMuscarinic
acetylcholin
e Receptor
M2

3224

190

gagagctcca atgactccac ctcaagtcagt gctgttgccct ctaatatgag agatgatgaa
 ataaccacagg atgaaaaaac agtttccact tccctgggcc attcacaaga tgagaactct
 aagcaaacat gcatcagaat tggcaccacag acccccaaaa gtgactcatg taccocaact
 aataccacag tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt
 gtgcccgcga agattgtgaa gatgactaag cagcctgcaa aaaaagagcc tctcctctcc
 cgggaaaaaga aagtcaccag gacaattctg gctattctgt tggctttcat catcacttgg
 gcccataca atgtcatggt gctcattaac accttttgtg caccttgcat ccccaacact
 gtgtggacaa ttgtgtactg gctttgttac atcaacagca ctatcaaccc tgcctgctat
 gcactttgca atgccacctt caagaagacc tttaaacacc ttctcatgtg tcattataag
 aacataggcg ctacaagta a
 MNSTNSSN SLALTSPYKT FEWFIVLVA GSLSLVTIIG NILVMVSIVK NRHLQTVNNY P
 FLFLACADL IIGVFSMNLV TLYTVIGWNP LGPVVCDLWL ALDYVVSNA S VMNLLIISFD
 RYFCVTKPLT YPVKRTTKMA GMMIAAAWVL SFILWAPAIL FWO FIVGVRT VEDGECYIQF
 FSNAAVTFTG AIAAFYLPVI IMTVLYWHIS RASKSRIKDD KKEPVANODP VSPSLVQGR I
 VKPNNNMPS SDDGLEHNKI QNGKAPRDPV TENCVQGEK ESSNDSTSVS AVASNMRRDE
 ITQDENTVST SLGHSKDENS KQTCIRIGTK TPKSDSCTPT NTTVEVVGSS GONGDEKQNI
 VARKIVKMTK QPAKKKPPPS REKKVTRTIL AILLAFIITW APYNVMVLIN TFCAPCIPT
 VWTIGYWL CY INSTINPAC Y ALCNATFKKT FKHLIMCHYK NIGATR
 CCTGGCAGTG CCGATGTTCC GATACATGGCA CAGCAGCAGG TGCCGGGAAG TCTTTTAA A
 GGTGGCGTTG CACAGAGCAT AGCAGGCAGG GTTGATGGTG CTGTTGACGT AGCAGAGCCA
 GTAGCCCAATG GACCACACCG GGTGAGGAT GCAGTCTGG CAGAAGGTGT TCACCAGGAC
 CATGACGTTG TGAGGCGTCC CCGTGAGGAT GAAAGCTAAC ANAATGGCAA AGATCGGTG
 TGGCACTTTG CGCTCCCGG CCGCATCTG CGCTCTCTG CGCACCTGG TGCAGCGAT
 GCTAGCGAAC TTGCGGGCCA CGTTGGCGC AGCGCGCTG CAGNCGGCGT GGGAGGGACA
 ATCTCAGGGC TGGCACACAC TCATGGGCTG GCTGGCTTCG TCAAAATTTG GATCTTGGAC
 CATCTGGGAG GCTTGGTTGA AGGCCCCCGG CTCGGACITG CGGGCATGAA TCCAGGCCCT
 ACTCTANAGG ATCCCCCCT CTCC
 atggccaact tcaacacctg caatggcagc tcgggcaatc agtccgtgag cctgggtcag A
 tcatcatccc acaatcgcta tgagacggtg gaaatggtct tcaatgccc agtgacaggc
 tccctgagcc tgggtgactgt cgtgggcaac atcctggtga tgctgtccat caaggtcaac
 aggcagctgc agacagtcaa caactacttc ctcttcagcc tggcgtgtgc tgatctcatc
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 atgaaccttc tcatcatcag ctttgaccgc tactctgctg tcaccaagcc tctcacctac
 cctgccccgc gcaccacca gatggcagc ctcctgattg ctgctgctg ggtactgtcc
 ttctgtctct gggcgctgc catctgttc tggcagttg tggtaggtaa gcgagcgtg
 ccgacaacc actgcttcac ccagttcctg tccaacccag cagtgaacct tggcacagcc
 attgctgct tctacctgcc tgtggtcatc atgacggtgc tgtacatcca catctccctg
 gccagtcgca gccgagtcga caagcacccg cccgagggcc cgaaggagaa gaaagccaag
 acgtggcct tctcaagag ccactaatg aagcagagcg tcaagaagcc ccgcccggga
 ggcgccccg gaggactgag caatggcaag ctggaggagg cccccccg agcgtgcca

LG1143

3226

191

Muscarinic
acetylcholin
e Receptor
M4Muscarinic
acetylcholin
e Receptor
M4

3226

192

193	3226	Muscarinic acetylcholin e Receptor M4	NP_000732.1	<p>ccgccaccgc gcccggtggc tgataaggac acttccaatg agtcagctc aggcagtgcc accagaaca ccaaggaacg cccagccaca gagtgtlcca ccacagaggc caccactccc gccatgcccg cccctcccct gcagccgagg gacctcaacc cagcctccag atggtccaag atccagattg tgacgaagca gacaggcaat gagtgtgtga cagccattga gattgtgcct gccacgcggg tggcatgcg ccttgcgccc aacgtggccc gcaagttcgc cagcatcgct cgcaaccagg tgcgaagaa gcggcagatg gcggcccggg agcgcaaatg gacacgaacg atctttgcca ttctgtcagc ctctcatctc acctggagcg cctacaacgt catggtcctg gtgaacacct tctgccaagc ctgcacctc gacacggtgt ggtccattgg ctactggctc tghtacgtca acagacccat caacctcgcc tghtatgtct tgtgcaacgc caccittaaa aagaccitcc ggcacctgct gctgtgccag tateggaaca tcggcactgc caggttag MANFTPVNGS SGNQSVRLVT SSSHNRVETV EMVFIATVTG SLSLVTVVGN ILVMSIKVN P</p>	Homo sapiens
194	3227	Muscarinic Acetylcholin e Receptor M5	NM_012125	<p>atggaagggg attcttacea caatgcaacc accgtcaatg gcacccagc aaatcaccag A cctttggaac gccacagggt gtgggaagtc atcaccattg cagctgtgac tgctgtggta agcctgtaca ccattgtggg caatgtcttg gtcatgatct ccttcaagt caacagccag ctcaagacag ttaacaacta ttacctgtct agcttagcct gtgcagatct cateattgga atcttctcca tgaacctcta caccacctac atcctcatgg gacgctgggc tctcgggaat ctggcttggt acctttggct tgcactggac tacgtggcca gcaacgcttc tghtcatgaac ctctgggtga tcagttttga ccgttacttt tccatcacaa gaccttgac atatcgggcc aagcgtactc cgaaaagggc tggcatcatg attggcttgg cctggctgat ctcttcatc ctctggggcc cagcaatcct ctgctggcag tacttggttg ggaagcggac agttccactg gatgagtgc agatccagtt tctctctgag cccaccatca ctttggcac tgccattgct gcttctaca tccctgttct tghtcatgac atccttact gtgcaatcta ccgggaaaca gagaagcgaa ccaaggacct ggctgacct cagggttctg actctgtgac caaagctgag aagagaaagc cagctcatag ggctctgttc agatcctgtc tgcgtgtgct tcgacccacc ctggcccagc ccatcccaagc ccaggcctcc tgggtcatcct cccgcaggag cactccacc accacctgta gcagctaccc ttccctcagag gatgaggaca agcccggcac tgaccctgtc ctccaagtgg tctacaagag tcagggttaag gaaagcccg ggaagaatt cagtgtgaa gagactgagg aaacttttgt gaaagctgaa actgaaaaaa gtgactatga caccctaaac taccttctgt ctccagcagc tghtcataga cccaagagtc agaaatgtgt ggcctataag ttccgattgg tggtaaaagc tgacgggaac caggagacca acaatggctg tcacaagggtg aaaatcatgc cctgcccctt cccagtggcc cagggaacct caacgaaagg cctcaatccc aacccagcc atcaaatgac caaacgaaag agagtgtgct tagtcaaga gaggaaagca gccacagac tgagtggcat tctcctggcc ttcatcatca catggacccc gtataacatc</p>	Homo sapiens

197	3378	Tachykinin Receptor 3	NP_001050.1	<p>aaggtagtgt ataaatgtga caaagacact aataacatgt tagcctccac caaaaataaa atgggcttta aattt</p> <p>PVAPAPSQP WANLTNQFVQ AVNLTASLAA GAATGAVETG WLQLLQAGN LSSSPSALGL P NYFLVNLAFS DASMAAFNTL VNFYIALHSE WYFGANYCRF QNFFPITAVF ASIYSMTAIA VDRYMAIIDP LKPLRSATAT KIVIGSIWIL AFLLAFPQCL YSKTKVMPGR TLCFVQWPEG PKQFTYHII VIILVYCFEL LIMGITYTIV GITLMGGEIP GDTCDKYHEQ LKAKRKVVFM MIIVMTFAI CWLPYHIYFI LTAIYQQLNR WKYIQVYLA SFWLMSSTM YNPIIYCCLN KRERAGFKRA FRWCPFIKVS SYDELELKT REHPNRQSSM YTVTRMESMT VFVDPNDADT TRSSRKKRAT PRDPSFNGCS RRNSKSASAT SSFISSPYTS VDEYS</p>	Homo sapiens
198	3380	Neuromedin B Receptor	NM_002511	<p>gtgctgtgag gcttgccgc ggacagtaaa cttgcagggg cgagaggagg ggacatcgat A taaacctaaa tegtggcgt tcagtcctca gggcacccag cgcgtgaaaa ctccagccga ctctgctgga aaggagatac tgccctctaa gtctctttcc aacctctcgg tgaccaccgg cggaatgag agcgggtccg ttcccgaagg gtgggaaagg gattctcgc cgccctcgg cgggaccacc acggagttgg tgatccgctg tggatcccg tccctacc tgctcatcat caccgtgggc ttgctgggca acatcatgct ggtgaagatc ttcatcacca acagcgccat gaggagcgtc cccaacatct tcactctaa cctggcggcc ggggacttgc tgcgtgctgt cacctgcgtc ccggtggagc cctgcgcta cttcttcgac gagtggatgt ttggcaaggt ggcgtgcaaa ctgatccctg tcatccagct cacttcctg ggggtttccg tgttcaactc cactgcccct agcgcgcgaca ggtacagagc catcgttaac cccatggaca tgcagacgtc aggggcattg ctgcggacct gtgtgaaggc catgggtatc tgggtggtct ccgtgttgc ggcagttccc gaagcgtgtg tticagaagt ggctcgatc agtagcttgg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catccaaaaga ttcatcagat gtctattttc ttggtctatt tctcatacc acttgctatt attagcattt attattata tattgcaaaag accttaatta aaagcgaca caatcttctt ggagaataca atgaacatac caaaaaacag atggaaacac ggaacgcct ggctaaaatt gtgcttgcct ttgtgggctg tttcatcttc tgttggttc caaacacat cctttacatg tatcgtctt tcaactata tgagattgat ccatctctag gccacatgat tgtcacctta gttgcccggt tctcagttt tggcaattct tgtgtcaacc catttgctct ttacctact agtgaaagct tcaggaggca tttcaacagc caactctgct gtgggaggaa gtccatatcaa gagagaggaa ccagctacct actcagctct tcagcgtgc gtatgacatc tctgaaaagc aatgctaaga acatggtgac caattctggt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctacctggag agaacttagt aa</p> <p>MPSKSLSNLS VTGANESGS VPEGWERDEL PASDGTTEL VIRCVIPSLY LLITVGLLG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLLTCTPVD ASRYFFDEWM FGKVGCKLIP VIQTSVGVS VETLTALSAD RYRAIVNPM QTSGLLRT CVKAMGIWV SVLLAVPEAV FSEVARISL DNSSFTACIP YPQDELHPK IHSVLIFLVY FLIPLAISI YYHIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFFICWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLLSES FRHENSQLC CGRKSQYERG TSYLLSSAV RMTSLKSNK NMVTNSVLIN GHSMKQEMAM</p>	Homo sapiens
199	3380	Neuromedin B Receptor	NP_002502.1	<p>MPKSLSNLS VTGANESGS VPEGWERDEL PASDGTTEL VIRCVIPSLY LLITVGLLG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLLTCTPVD ASRYFFDEWM FGKVGCKLIP VIQTSVGVS VETLTALSAD RYRAIVNPM QTSGLLRT CVKAMGIWV SVLLAVPEAV FSEVARISL DNSSFTACIP YPQDELHPK IHSVLIFLVY FLIPLAISI YYHIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFFICWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLLSES FRHENSQLC CGRKSQYERG TSYLLSSAV RMTSLKSNK NMVTNSVLIN GHSMKQEMAM</p>	Homo sapiens

200	3404	Neuropeptide NM_000910 Y Receptor Type 2	Homo sapiens
tatccctatcc	ctatccctagc	ttttaaacctg	agccagagct cactacacag gtctctggct A
atcgagtctg	aatctgact	actcaactta	taaactgtct gcagacacct gttaggga
ttgctgatca	tggcgccag	gactgaact	cgctttacct tctgttttg agcacagga
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agtaaaattga	agaaacctgt	cagtccttga	gctgcaaatg accactacca tcagcgaagg
caaaaaacca	ccaaaatgct	ggtgtgtgtg	gtgggtgtgt ttgcgggtcag ctggctgctt
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gaggtcagaa	agaacagtgg	ccccaatgac	tctttcacag aggtaccacaa tgtctaagga
agctgtggtg	tgaanaatga	tggatgaatt	ctgaccagag ctatgaatct ggttgatggc

[illegible]

202	3405	Neuropeptide NM_005972 Y Receptor Type 4	atgaacaccc ctacacctct ggcccttgctg ctcccaaat ctcccaagg tgaaaaacaga A agcaaacccc tgggcacccc atacaacttc tctgaacatt gccaggattc cgtggacgtg atggtcttca tctgtcacttc ctacagcatt gagactgtcg tgggggtcctt gggtaacctc tgccctgatgt gtgtgactgt gaggcagaag gagaaagcca acgtgaccaaa cctgcttctc gccaaacctgg ccttctctga ctctctcatg tgcctcctct gccagccgtt gaccgccgtc tacaccatca tggactactg gatcttttga gagacctctt gcaagatgtc ggcccttcac cagtgcattg cgggtgacgtg tcccatcttc tctgtctgct cctgtggcctt ggagaggcat cagctcatca tcaaacccaac aggtctggaag cccagcatct cacaggccta cctgggggatt gtgtctatct ggggtcattgc ctgtgtcttc tccctgacct tccctggccaa cagcatctg gagaaatgtct tccacaagaa ccactccaag gctctggagt tccctggcaga taagtggtc tgtaccgagt cctggccact ggctcaccac cgcaccatct acaccactt cctgctcttc ttccagtact gctccacctt gggcttcac ctggtctgtt atgcacgcat ctaccggcgc ctgcagaggc aggggcgcgt gtttcacaag ggcacctaca cttgtgcagc tgggcacatg aagcagggtca atgtgtgtct ggtgtgtgat gtggtggcct ttgacctgct ctggctgcct ctgcatgtgt tcaacagcct ggaagactgg caccatgagg ccatcccat ctgccacggg aacctcatct tcttagtgtg ccacttgctt gccatggcct ccacttgctt caaccattc atctatggct ttctcaacac caacttcaag aaggagatca aggccctggt gctgactgct cagcagagcg ccccccctga ggagtcggag catctgcccc tctccacagt acatacggaa gtctccaaag ggtccctgag gctaagtcgc aggtcccaat ccatctaa CtMCVTVRQK EKANVTNLI ANLAFSDFM CLLCQPLTAV YTIMDYWIFG ETLCRMSAFI P 203 3405 Neuropeptide NP_005963.1 Y Receptor Type 4	ETWVGVLGNL P Homo sapiens
204	3406	Neuropeptide NM_006174 Y Receptor Type 5	gaaaggctat cggtaacaac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcga attctgattt cccagtcgtg gatgactata aaagcagtgt agatgactta cagtattttc tgattgggct ctatacattt gtaagtcttc ttggctttat ggggaatcta cttattttta tggctctcat gaaaaagcgt aatcagaaga ctacggtaaa cttccctcata ggcaatctgg ccttttctga tatcttggtt gtgctggttt gctcaccttt cacactgacg tctgtcttgc tggatcagtg gatgtttggc aaagtcatgt gccatattat gccttttctt caatgtgtgt cagttttggt ttcaacttta attttaaat caatggccat tgtcaggat catatgataa aacatcccat atctaataat ttaacagcaa accatggcta ctttctgata gctactgtct ggacactagg ttttgccatc tgttctccc ttccagtgtt tcacagtctt gtggaacttc aagaacatt tgggttcagca ttgctgagca gcaggatttt atgtgtttgag tcatggccat ctgattcata cagaattgcc ttactatct ctttattgct agttcagtat attctgacct tagtttgtct tactgtaagt catacaagt tctgcagaag tataagctgt ggaattgtcca acaagaaaaa cagacttgaa gaaaatgaga tgatcaactt aactcttcat ccatccaaaa agagtgggcc tcaagtgaat ctctctggca gccataaatg VSKGSLRLSG RSNPI Homo sapiens	Homo sapiens

205 3406 Neuropeptide NP_006165.1 Y Receptor Type 5 Homo sapiens

gagttattca ttcatcaaaa aacacagaag aagatatagc aagaagacag catgtgtgtt
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MDLEDEYN KTLATENNTA ATRNSDFPV DDYKSSVDDL QYFLIGLYTF VSLGFMGNL P
LILMALMKR NQKTTVNFLL GNLAFSDIIV VLFCSPTLT SVLLDQMMFG KVMCHIMPFL
QCVSVLVSTL ILISIAIVRY HMIKHPIINN LTANHGYFLI ATVWTLGFAI CSPLPVFHSI
VELQETFGSA LLSRYLCVE SWPDSYRIA FTISLLLVQY ILPLVCLTVS HTSVCRSISC
GLSNKENRLE ENEMINLTIL PSKSGPQVK LSGSHKWSYS FIKHRRRYS KKTACVLPAP
ERPSQENHSR ILPENFGSVR SQLSSSKFI PGVPTCFEIK PEENSDVHEL RVKRSVTRIK
KRSRSVFYRL TILILVEAVS WMLHLHFVV TDENDNLISN RHFKLVYCIC HLLGMMSCCL
NPILYGFLLN GIKADLVSLI HCLHM

206 3408 Neurotensin NM_002531 Receptor Type 1 Homo sapiens

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gtctctggg cgggtctgt ggtgtgact gctcgtggt tcccggtga tgtctgtatg
ctctatctg tgcacttacc gtaggtaggg acagtgctcc atgcaccaca gacacacca

207	Neurotensin Receptor Type 1	NP_002522.1	cgacacctga tctcgtatca ctacgttgcg gccaggtcat gatgtggccc cggaagctgg ccctgcgtgc catgagtgcg tcggtcatgg agtcggagc cctgagccg gccctggtg acggcacagc cctcacagct caaacgccca ccccactcc caccatctgc aggtggtgaa aacaacccct gtgtatctct caataaaggt ggccgaagg cctcgatgtg g YSKVLNTAVY LALFVAGTGV NTVTAFTLAR KKSLSQSLQST VHYHLGSLAL SDLLTLILAM PVELYNFIWV HHPWAFGDAG CRGYFLRDA CTYATALNVA SLISVERYLAI CHPFKAKTIM SRSRTKKFYS AIWLASALT VPMLFTMBEQ NRSADGQHAG GLVCTPTIHT ATVRVVIQVN TFMSFIFPMV VISVLNTIIA NKLTVMVRQA AEQGVQCTVG GEHSTFSMAI EPRGVQALRH GVRVLRAVVI AFVVCWLPVH VRRIMFCYIS DEQWTPFLYD FYHYFYMVTN ALFYVSSSTIN PILYNLVSAN FRHIFLATLA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS NATRETTY cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc caggtggtc A ccagctccca aggaggttgc agaagtaccg tacagagtgg attgacagg cagtggcagc gagccctct tccccggcc gttctggag gttatctacg gcagccacct tcaggggcaac ctgtccctcc tgaagcccaa ccacagctctg ctgccccgc atctgtgct caatgccagc cacggcgctt tctgccccct cgggctcaag gtcaccatcg tggggctcta cctggccgtg tgtgtcggag ggctcctggg gaactgcctt tacatcttt aacctggccc tggccgacac tctggtctctg atgaagacag ccaccaatat ttacatcttt cactggacac cctctggctc tgggaatctg ctgacgctgc ccttccaggg caggacatc cctctggctc tctgcccgtc tgggaatctg ctgtgcaaga cagtcatgc catigactac tacaactatg tcaccagcac ctccacccta actgccatga gtgtggatcg ctatgtagcc atctgccacc ccacccgtgc cctcgacgtc cgacgtcca gcaagccca ggctgtcaat gtggccatct ggccctggc ctctgtgtc ggtgtcccc ttgccatcat gggtcggca caggtcaggg atgaagagat cgagtgcctg gtggagatcc ctaccctca ggattactgg gggccggtgt ttgccatctg catcttctc ttctcttca tctgtccctgt gctggtcatc tctgtctgt acagctcat gatccggcg ctccgtggag tccgctgct ctcgggctcc cgagagaagg accggaacct gcggcgcatc actcggctgg tctgtgtgtg agtggctgtg ttcgtgggtc gctggagccc tgtccaggtc ttcgtgtctg ccaagggtc gggtgttcag ccgagcagcg agactgccc ggccattctg cgcttctgca cggccctggg ctacgtcaac agctgctca acccactct ctacgcctc ctggatgaga acttcaaggc ctgcttccgc aagtctgtct gtgcatctgc cctgcgccc gactgtcagg tctctgaccg cgtgcgcagc attgccaagg acgtggccct ggccgtgcaag acctctgaga cgttaccg cgccgcatga ctaggcgtgg acctgcccc ggtgctgtc agcccgaga gcccatctac gccaacaca gactcacac aggtcactgc tctctaggcg gacacacctt ggccctgag catccagagc ctgggatggg ctcttccctg tggccaggg atgtctcggtc ccagaggagg acctagtac atcatgggac aggtcaaaagc attagggcca cctccatggc ccagacaga ctaaaagctgc cctcctggtg cagggccgag gggacacaa gacctacctg gaagcagctg acctgctggt ggacggcctg tactggagcc cgtgccccctc cctccccgtg ctctatgta cttctggcct cttctgctct gtgtctgtgt aacctgggt ggcaggcac ccggaggagg agcagcagct gtgtctctct gtgccccca tgtgtgtgtg gctgttttga tggcagggtt ccagctgctt tcagccctgt gactctctc cagggcagct ggacaggctt ggacggccc gggaagtga gccagcagct tttcttggg gtgggacttg	Homo sapiens
208	Opiate Receptor- Like 1 (OPRL1)	NM_000913	cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc caggtggtc A ccagctccca aggaggttgc agaagtaccg tacagagtgg attgacagg cagtggcagc gagccctct tccccggcc gttctggag gttatctacg gcagccacct tcaggggcaac ctgtccctcc tgaagcccaa ccacagctctg ctgccccgc atctgtgct caatgccagc cacggcgctt tctgccccct cgggctcaag gtcaccatcg tggggctcta cctggccgtg tgtgtcggag ggctcctggg gaactgcctt tacatcttt aacctggccc tggccgacac tctggtctctg atgaagacag ccaccaatat ttacatcttt cactggacac cctctggctc tgggaatctg ctgacgctgc ccttccaggg caggacatc cctctggctc tctgcccgtc tgggaatctg ctgtgcaaga cagtcatgc catigactac tacaactatg tcaccagcac ctccacccta actgccatga gtgtggatcg ctatgtagcc atctgccacc ccacccgtgc cctcgacgtc cgacgtcca gcaagccca ggctgtcaat gtggccatct ggccctggc ctctgtgtc ggtgtcccc ttgccatcat gggtcggca caggtcaggg atgaagagat cgagtgcctg gtggagatcc ctaccctca ggattactgg gggccggtgt ttgccatctg catcttctc ttctcttca tctgtccctgt gctggtcatc tctgtctgt acagctcat gatccggcg ctccgtggag tccgctgct ctcgggctcc cgagagaagg accggaacct gcggcgcatc actcggctgg tctgtgtgtg agtggctgtg ttcgtgggtc gctggagccc tgtccaggtc ttcgtgtctg ccaagggtc gggtgttcag ccgagcagcg agactgccc ggccattctg cgcttctgca cggccctggg ctacgtcaac agctgctca acccactct ctacgcctc ctggatgaga acttcaaggc ctgcttccgc aagtctgtct gtgcatctgc cctgcgccc gactgtcagg tctctgaccg cgtgcgcagc attgccaagg acgtggccct ggccgtgcaag acctctgaga cgttaccg cgccgcatga ctaggcgtgg acctgcccc ggtgctgtc agcccgaga gcccatctac gccaacaca gactcacac aggtcactgc tctctaggcg gacacacctt ggccctgag catccagagc ctgggatggg ctcttccctg tggccaggg atgtctcggtc ccagaggagg acctagtac atcatgggac aggtcaaaagc attagggcca cctccatggc ccagacaga ctaaaagctgc cctcctggtg cagggccgag gggacacaa gacctacctg gaagcagctg acctgctggt ggacggcctg tactggagcc cgtgccccctc cctccccgtg ctctatgta cttctggcct cttctgctct gtgtctgtgt aacctgggt ggcaggcac ccggaggagg agcagcagct gtgtctctct gtgccccca tgtgtgtgtg gctgttttga tggcagggtt ccagctgctt tcagccctgt gactctctc cagggcagct ggacaggctt ggacggccc gggaagtga gccagcagct tttcttggg gtgggacttg	Homo sapiens

209	3452	Opiate Receptor- Like 1 (OPRL1)	NP_000904.1	MEPLFPAPFW EVIYGSHLQG VCVGGLLGNC LVMYVILRHT ALCKTVIAID YNNMFTSTFT VGVPAIMGS AQVEDEEIEC RLRGVRLLSG SREKDRNLRR LRFCTALGVV NSCLNPILYA KTSETVPRPA	ccttgagctt ggagctgcca cctggaggac ttgcctgttc cgactccacc tgtgcagccg gggccacccc aggagaaagt gtccaggtag gggtggcag tccctggctg cagacccca gttgccctc ggaccgcacc tctgaaggtt ttctgtgtgc tgcacggtag aggcctcatc cctgactgca gcttgactct ggcccacacc ccatattccc ttcaggagac cagcagagg cctggccat cctccagcg gtgcaatgaa ctatatgctg tggaccgtca accagccct gcttctcagt gtggggcagg tgtctcagg cgaaggcgc gctgaccac atgggcagct ctgttcacaa agtgaggcc tcgttttctt ggtcttgact gctctgttg gtgggagaa gattctctgg gggtccccc atctcccaa ggctccctc acagcctctc cttgtcttga agccagaggt cagtggcctg gctgtgtgc ggggaagctg tgtggaagg gaagctggg gccacagcag agtccgtctc tggggacgcc tgcttcattt acagcctca agatggctct gttagaggcc tgagcttgct gcccaacggg aggatggctt cacagcagag ccagcatgag gggtggggcc tggcagggt tgcctgagcc aaactgcaaa ggctgtggg gctgtgagga cactgcgggg gttg	Homo sapiens
210	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NM_000273	atgaccagg gaggccggg gggctctcgg acaccgagc cgcgtccgc aacacagccc A atggcctccc cgcgcctagg gactttctgc tgcaccagc gggacgcagc cagcagctc gtgctgagct tccagccgcg ggccttcac gcgctctgcc tgggcagcgg cgggtccgc ttggcgctgg gcctctgca gctgctgcc ggcgcgggc cgcggggccc cgggtccccc ggacgtccc cgcggcctc ggtccgcac ctgcgcgtc cgcgtccctc gaccttctc ggctgcctgg gtatggtag ccggtccacc gtgtggtag gattccaaa tttgtgtgac agcgtctcgg atatgaacca caggaaatt tggcctgctg cttctgcgt ggggagtgcg atgtggatcc agctgttga cagtgcctgc ttctgtggc tgttttcta tgcagtggat gcttatctgg tgatccggag atcggcagga ctgagcaca tccctgctga tcacatcatg gcgtggggcc tggccacct gctctgtgtg gaggagccc ccattgctta ctaccttcc gtgtccagg gtgagcggg cctggaccac gccatcccc actatgtcac catgtacctg ccctgctgc tggttctcgt ggcgaacccc atcctgttcc aaaagacagt gactgcagt gcctctttac ttaagggaag acaaggcatt tacacggaga acgagaggag gatggagcc gtgatcaaga tccgatttt caaatcatg ctggttttaa ttattgttg gttgtcgaat atcatcaatg aaagcctttt attctatctt gagatgcaaa cagatatcaa tggaggttct ttgaacacctg tcagaactgc agccaagacc acatggttta ttatggaaat cctgaatcca gccagggat ttctctgtc ttggccttc tacggctgga caggatgcag cctgggtttt cagttctcca ggaaggagat ccagtggga tccctgacca cctcggctgc tggggggct caccatccc cactgatgcc ccatgaaaac cctgcttccc ggaaggtgtc tcaagtgggt gggcagactt ctgacgaagc cctgagcatg ctgtctgaag gttctgatgc cagcacaatt gaaattcaca ctgcaagtga atcctgcaac aaaaatgagg gtgacctgc tctcccaacc	Homo sapiens	

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	catggagacc tatgaagggg atgtgctggg ggtccagacc ccataatcct cagactcaac aatctctgtt ctttagaact gtgttctcac cttcccaaca ctgcactgcc gaagtgtagc ggcccccaaa ccttgctctc atccaccagt agagcttctt cccgaaggcc ctttaggata ggagaaaggg ttcatgcaca cactgtgtgag aatggaagag cccctccag accactctac agctgctcta gccttagtgg ccactaggaa gtttctgag gctggtctgta aagtaaagtgt aaggtccaca tccttgggga agtagttaaa taaaatagtt atgactg MTQAGRRGPG TPEPRRTQP MASPRLTGFC CPTDRDAATQL VLSFQPPRAFH ALCLGSGGLR P LALGLLQLLP GRRPAGPGSP ATSPPASVRI LRAAAACDLI GCLGMVIRST VWLGFNFEVD SVSDMNHTEI WPAAFCVGSA MWIQLLYSAC FWLFCYAVD AYLVIKRSAG LSTILLYHIM AWGLATLLCV EGAAMLYYPS VSRCEGLDH AIPHYVTMYL PLLLVIVANP ILFQKTVTAV ASLLKGRQGI YTENERRMGA VIKIRFFKIM IVLIIICWLSN IINESLLFYL EMQTDINGGS LKPVRTAAKT TWFMGIINP AQGFLLSLAF YGWTGCSLGF QSPRKEIQWE SLTSAEAGA HPSPIMPHEN PASGKVSQVG GQTSDEALSM LSEGSASTI EIHTASESCN KNEGDPALPT HGDI	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	gaacagtgtt acctggagc ctacaatgag aggtatttca aaatgagtga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acacttgggc cacttcaaga cgacaaacgc tcaactggca aaacacctc actgaaaaga gacctcatat tatgcaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagatga tcaattcaac ctccacacag cctccagatg aatcctctgc tcagaacctc ctgatactac agcagatcat tccctgtgctg tactgtatgg tcttcatgag gggaaacctc ctcaatggag tgtcaggatg gatatcttt tactgacca gctctaagag ttctcatcctc tatctcaaga acattgttat tctgactttt gtgatgagcc tgaacttttcc ttccaagatc cttgggtgact caggccttgg tccctggcag ctgaacgtgt ttgtgtgcag ggtctctgcc gtgctcttct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagcttggac aggtattata aaattgtataa gcctcttggg acttcttcca tccagtcagt gagttacagc aaacttctgt cagtgtatgt atggatgctc atgctctctc ttgctgttcc aaatattatt ctcaccaacc agagtgttag ggaggttaca caataaaaat gtatagaact gaaaagtga ctgggacgga agtggcaca agcatcaaac tacatcttcg tggccatctt ctggattgtg ttcttttgt taatcglttt ctatactgct atcacaaaga aaatctttaa gtccacctt aagtcaagtc ggaattccac ttcggtcaaa aagaaatcta gccgcaacat attcagcatc gtgtttgtgt tttttgtctg ttttgtacct taccatattg ccagaatccc ctacacaaag agtcagaccg aagctcata cagctgccag tcaaaagaaa tcttgcggtg tatgaaagaa ttcactctgc tactatctgc tgcataatgta tgcttggacc ctattattta ttcttttcta tggcagccgt ttagggaat ctatgtgaag aaattgcaca ttcattataa agctcagaat gacctagaca ttccagaat caaaagagga aatacaacac ttgaaagcac agatactttg tgagttccta cctcttcca aagaaagacc acgtgtgcat gttgtcatct tcaattacat aacagaaatc aataagatat gtgcccctcat cataaataatc atctctagca ctggccatcca atttagtica ataaaaattca aatataagtt tccatgcttt ttgttaacat caaagaaaac ataccatca gtaatttctc taatactgac cttctattc tctattaata aaaaattaat acatacaaat attcaattct attatattaa aataagttaa agttataac cactagtctg gtacagtaatt aaatagtaaa taaaacacaa cataatcaaa gacaactcac tcaggcatct tcttctctc aataccagaa	Homo sapiens

213	3544	UDP-glucose Receptor (K1AA0001)	NP_055694.1	<p> tctagtatgt aattgttttc aacactgtcc ttaagagacta acttgaaagc aggcacagtt tgatgaagg ctagagagct gtttgcaata aaaagtcagg ttttttccct gatttgaaga agcaggaaaa gctgacaccc agacaatcac tattaattgt atacttagc agaaaatttt ttttttctg gcactgcaaa ggaagaggaa tattaattgt atacttagc atacttagc atacttagc atacttagc tagcactttg aggatattag atacttagc atacttagc atacttagc atacttagc atacttagc taatgagcct ggggttctg ttttgaata ttttgaata ggttttactg agagaaacta aatattggca tacgttatca gcaacttccc ctgttcaata gtttgggaaa aataagatga ctgggaaaaa gacacaccca caccgtagaa catatattaa tctactggcg aatgggaaaag gagaccattt tcttagaaaag caataaaact tgattttttt aaatctaaaa tttacattaa tgagtgcata ataacacata aaatgaaaat tcaacacata catttttctg gaaaacagac ggattttact tctggagaca tggcatacgg ttactgactt atgagctacc aaaactaaat tctttctctg ctattaaact gctagaagac attcatctat ttttcaaatg ttttttcaaa acatttttat aagtaaatgt tgtatctatt tcatgcttta ctgtctatat actaataaaag aaatgtttta atactg </p>	<p> Homo sapiens </p>
214	3582	Oxytocin Receptor	NM_000916	<p> tggttaaggct ctgggaccaa cgctggcgga accagctccg ctccggaggg gtctgcgcg A ctggcctcgc cgcgcctcta ggcgacccgt gcgatatgtc agcctcagcc ccaggcacag cgccgcatcc agacgcgctc cgcgcgcgca gcctgggagg cgctcctcgc tgcctcctg taccatcca ggcacacgac agcctgcgcg gaggggattc caaccgagcc tccagtga gacctcagct tagcatcaca ttagtgcag cggcgagcc atcccaactc gggcgggag cgacgcgctc actggggcgc tcaagtcgcg tgcaacttc ccggggggag tcaactttag gttcgcctgc ggaactcgtg cagtgaagc cgctgaacat cccgaggaaac tggcacgctg ggggctctgg gcttctggcc ggtagaggat tcccgtctat ttgcagtggc tcagaggagg gtggacccag cagatccgtc cgtggagtct ccaggagtgg agccccggc gccctacac cctccgacac gccggtatcc gccagccgc ccaagccgt aaagggtcgc aaggccggg cgcaaccgtc cgcacagggt catggaggc gcgctcgcag ccaactggag cgccgaggca gcaaacgca ggcgcgcgc gccgggggc gagggaacc gcaccgcgcg acccccgcg cgcaacgagg cctgggcgcg cgtggagggt ggggtgctgt gtctcactct gctcctggcg ctgagcggga acgcgtgtgt gctgctggcg ctgcgcaca cagccagaa gcactcgcg ctctctctct tcatgaagca cctaagcat gcgcacctg ggtggcagt gtttcaggtg ctgcccagct tgcgtggga catcaccttc cgcttctac ggcgcgacct gctgtgcgc ctggtcaagt acttgcaggt ggtgggcatg ttgcctcca cctacctgct gctgctcatg tccctggacc gctgcctggc catctgccag ccgctgcgcg ccgacccgac cgctggcag tgcctgccac gtggctcggc tgcctgggtg ccagcgcgcg gcagggtgac atcttctctc tgcgcgaggt ggtgacgcg gtcttcgact gctgggcgct cttcatccag ccctggggac ccaaggccta catcacatgg atcacgctag ctgtctacat cgtgccggtc </p>	<p> Homo sapiens </p>

atcgtgctcg ctacctgcta cggccttacc agcttcaaga tctggcagaa cttgcgggctc
aagaccgctg cagcgggcgc ggcgagggcg ccagagggcg cggcggtggg cgatgggggg
cgctggccc tggcgctgt cagcagcgtc aagctcatc ccaaggccaa gatccgcacg
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cagggccagg gctgcagcct gaggctcagg ctgtgctggc ataatgctc tgctcctagg
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gtccagtgt ctggacttgg ggtaaagcagt ggggttggga cctcagatgg gaagggtggt
gctaagatcc tctgacctc aagtgattt tgcctttaa ggaacaaatg ctggggctct
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tgcagatgac acagtttgt atatagaaaa tccataggaa ctcacacaca cacacaca
cacacacgca cacagctatt agaactaata agcaagttcc gcaaggttc aagatacaag
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gttaataat tccatttata ataccatcag aaagaataaa ataggaatca acttaacaaa
acaagtgcaa gactgaaaaac tacaaaattg gaaagaattt aaagaaggct taaataaaatg
gaaagacatc ctgtgttcat ggtcagact tagtattgtt aagatggcaa tactatccta
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atgaggttgg acctttact acactatgtg caaaaatcaa ctcaaaacgc atccaaagtc
taaatataag agctgaaact ataaaatctt agaaagaac ataggcatag atcttgttaa
ccttgaatta ggcagtgtt tcttagatat gtatccaaag acacaagcaa ccaatggaaa
aataggtaaa ttggacttaa tcaagatttg aagcttttgt gattgaaaag accctatcaa
gaaggtgaaa agataaacctg cagaatggga gaaaatattt gcgagtcata tatatgataa
ggggcttgta tctggaatat ataaataact cttataacac acaataaagg agaaaaataa
atcaatttaa aaaatgggtt aacgggttga atagacttct ctcaaaagaa gatatgcaa
tggctactaa gcaatgaaa aatactcaac attattattc attagggaaa tgcaagtcaa
aatcaaatg agattccagt ttacaatcac taggtggctt acaataaaaa gatggacaag

Homo
sapiens

P

NP_000907.1

Oxytocin
Receptor

3582

215

aacgagtgtc ggtgaggatg tagagaaact ggtagaaatt taaattgttg gtgggaatgt
 aaatggtgca cctgcttga aaaaagtgtt ggagtagctt caaaaaagta aacgtagagt
 gaccatatga ccagggaatg ccactcctag gtatttacc agagaaaatg aaaaagtaca
 tacacacaaa aacttgtaga ccaatgttca tagcaacatt attgttaata gcaaaaagt
 ggaacaaacc caatgtgcta ccaatgtatg aatgggaat aaaaatgtgggt ctgtccacgc
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 tgcattgaaa tgcaatgtct aaaaaggagc aatctatata gagtgaatat agattagcgt
 ttgcagggc ctggaggctg tgagagatga ggcagtagta ctaagggttt ggggtttctt
 ttctgggtga tgaataatgtt cgaataatgtt ggtgattgtg cagcattttg agaattgtact
 aaaaaccaat gaactttaaa aataaaaaat aacacaaa

MEGALAANWS AEAANASAP PGAENRTAG PPRNEALAR VEVAVLCIL LLALSGNACV
 LLALRTTRQK HSRLEFFMKH LSIADLVAV FQVLPQLLWD ITRFYGPDL ICRUVKYLQV
 VGMFASTYLL LLMSLDRLA ICQPLRSRR RTDRLAVLAT WLGCLVASAP QVHIFSLREV
 ADGVFDCWAV FIQWGPCKAY ITWITLAVYI VPIVILATCY GLISFKIWQN LRLKTAATAA
 ABAPEGAAG DGRVALARV SSVKLISKAK IRTVMTFII VLAIVCWTP FFFVQMWVSW
 DANAPKEASA FIIVMLLASL NSCCNPWIYM LFTGHLFHEL VQRFLLCCSAS YLKGRRLGCT
 SASKSNSSS FVLSHRSSSQ RSCSQPSTA

Homo
sapiens

A

NM_002564

Purinergic
Receptor
P2Y, G-
protein
coupled, 2
(P2RY2)

3589

216

cggcacgagg caccgcaga ggaagaagcgc agcgcagtg gcagaggagc cccttgtggc
 agcagcacta cctgccaga aaaaagtctg aggtgggagc tggccccagg cctggggacc
 tgttttctct gtttcccgca gaggctccctg cagcccgctc caggtccagg cgtgtgcatt
 catgagtgag gaaccctgag aggcgtgag cactctgacc tggagagcag gggctggcca
 gggcgatggc agcagacctg gggccctgga atgacacct caatggcacc tgggatgggg
 atgagctggc ctacaggtgc cgcttcaacg aggaactcaa gtacgtgctg ctgcctgtgt
 cctacggcgt ggtgtgcgtg cttgggctgt gtctgaacgc cgtggcgctc tacatctctt
 tgtgccgctt caagacctgg aatgcgtcca ccaatatat gttccacctg gctgtgtctg
 atgcactgta tgcggcctcc ctgcccgtgc tggctatta ctacgcccgc ggcgacct
 ggccttccag caggtgtgct tgcagctgg tgcgcttctt ctctacacc aacctttact
 gcagcatcct ctctctcacc tgcatcagcg tgaccggtg totggcgctc ttacgacctc
 tgcgtccct cgcgtggggc cgggcccgct acgctcgccg ggtggccggg gccgtgtggg
 tgttgggtgt ggcctgccag gccccctgc tctactttgt caccaccagc gcgcgcggg
 gcgcgtaac ctgccacgac aactcgccac ccgagctctt cagccgcttc gtggcctaca
 gctcagtcct gctgggcttg ctcttcgagg tgccttttg cgtcactctt gctgtttacg
 tgcctatggc tggcgactg ctaaaagccag cctacgggac ctggggcgcc ctccctaggg
 ccaagcgcaa gtccgtgccc acctcgcgc tggtgtggcg tgtcttcgcc ctctgcttcc
 tgcatttcca cgtcaccgc acctctact acctctccg ctgctgggac ctacgtgccc
 aaccttcaa cggccatcac atggcctaca aggttaccgc gccgtggcc agtgctaaca
 gttgccttga cccctgtct tacttctctg ctgggcagag gctcgtacgc ttgccccgag
 atgccaagcc acctactggc ccagccctg ccaccccgcc tggccgagc ttggccctgc
 gcagatccga cagaactgac atgcagagga taggagatgt gttggggcagc agtgaggact
 tcaggcgagc agagtccacg ccggctgtgta gcgagaacac taaggacatt cggctgtagg

Homo
sapiens

P

NP_002555.1

Puriner
Receptor
P2Y, G-
protein
coupled, 2
(P2RY2)

3589

217

agcagaacac ttcagcctgt gcaggtttat attggaagc ttagaggac caggacttgt
gcagagcca cagtctccc agatatggac catcagtag tcatgtgga tgaccccatg
ctccgtcatt tgacagggc tcaggatatt cactcttgg tccagagtca actgttccca
taacccttag tcatcgtttg tgtgtataag ttgggggaat taagtttcaa gaaaggcaag
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agtcacaggt tggccagaaa accctggtta gtaatgagg ctgagtttgc acagtgtct
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aacatctggg gactaatatc atagacccat ctggaggctc ccatgggcta ggagcagtgt
gaggctgtaa ctatactaa aggttgtgtt gcctgctaaa aaaaa
MAADLGPWND TINGTWGDE LGYRCRFNEF FKYVLLPVSY GVVCVLGLCL NAVALYIFLC
RLKTNWASTT YMFHLAVSDA LYAASLPLV YYARGDHP FSTVLCKLVR FLFTYNLYCS
ILFLTICISVH RCLGLVRLPL SLRWGRARYA RRVAGAVWVL VLACQAPVLY FVTTARGGR
VTCHDTSAPF LFSRFVAYSS VMLGLLFAVP FAVILVCYVL MARRLLKPAY GTSGGLPRAK
RKSVRTIAV LAVEALCFPL FHVTRTLYS FRSLDLSCHT LNAINMAYKV TRPLASANSC
LDPVLYFLAG QRLVRFARDA KPPTGSPSPAT PARRRLGLRR SDRTDMQRIG DVLGSSSEDFR
RTESTPAGSE NTKDIRL

Homo
sapiens

A

NM_002563

Puriner
Receptor
P2Y1

3595

218

ccccctccc cgggggaccca gttgcctgc tcccttcgc tccgtggctt ttccgatgtc
tgctgcgcc ctgggcgcc ctgcctctc gccgcctct accctcggg gccgcgcct
aagtcgagga ggagagaatg accgaggtgc tgtggccgc tgtcccaac gggacggagc
ctgccttcc ggcgggtccg ggttcgtct gggggaacag caggtgcgc tccactgcg
ccgtctctc gtcgttcaaa tgcgcctga ccaagacggg ctccagttt tactacctgc
cggctgtcta catcttgta ttcatcatg gcttcctgg caacagcgtg gccatctgga
tgttcgtctt ccacatgaag ccttgagcg gcatctcgt gtacatgtt aatttgctc
tgcccgactt ctgtacgtg ctgactctgc cagcctgat ctctactac ttcaataaaa
cagactggat ctccgggat gccatgtga aactgcagag gtcatcttt catgtgaacc
tctatggcag catcttgtt ctgacatgca tcagtgcaca ccggtacagc ggtgtgtgt
acccctcaa gtccctggc cggctcaaaa agaagaatg gatctgtat agcgtgtg
tgtggtcat tgggtgtgt gcatctccc ccactctct ctactcaggt accgggtcc
gcaaaaaca accatcac tgttacgaca ccactcaga cgagtacctg cgaagtatt
tcatctacag catgtgcac accgtggcca tgttctgtg ccccttggtg ctgattctgg
gctgttacgg attaatgtg agagcttga tttaaaaaa tctggacaac tctcctctga
ggagaaaac gatttacctg gtaactatg gggcccggt tgattttcag accccagcaa
cttcccatgt gatgaaaac atgaactga cgtatcaggt gacaagaggt ctagcaagtc
tgtgtgctt caatgacagg gtttatgcca cgtatcaggt gacaagaggt ctgcaagtc
tcaacagttg tgggacccc attctctatt tcttgccgg agatactttc agaaggagac
tctcccgag cacaaggaaa gcttctagaa gaagtgggc aaatttgcaa tccaagagt
aagacatgac cctcaatatt ttacctgagt tcaagcagaa tggagatata agcctgtgaa
ggcacaagaa tctccaaaca cctctctgtt gtaatatggt aggatgctta acagaatcaa
gtacttttcc cctcttaac ttcttagttt agaaaaaat caaaccaaga aaatagttag

219	3595	Purinerigic Receptor P2Y1	NP_002554.1	<p> ttaaataaat aatagaagta gaaatgccca catccacact tagcttgctt gggtttgctt tcacagtctc tcttcctctt gactagaagt atgtataata aaacaataact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcaggcttt tctgtttaaa gtgtgtgtgc acatgagtac tggggctgtt ttgatatta gtaatttctc taagaaaaact agccccctgc aacttgagtt tgtggtttat ctgaccttta ttgttttttt aaatccaca gtaggataaa aaaatctata ttctcagaaa tatctagcat ggtataatac aaacacataa actcatcagt tcatccggca tcagatcaat gcatctcga gcggggtgtt ttttccagt tctataagc atagatgata gttgactgag ttcttttag gcatgataa gacaagtaaa gctaataat ttaaagcct gaaaagtgt ttgtttccag ttatttctgg aaaggctctc attatatt gggtgctaaa tgtttgatgg gaaaagcctg cataattat cgtactggtt aaatgcattc aaaataatta agtgcattg attttcttg taaacacct gagctctctt agacatcttg tgataaagag catttacttg cccactgct gtgcaatgcc ttaggacttt gtttgtgtc caggacaagt gttcactcac atctgtaaaa acaattttta gaattgcaaa taaattacag accaaagatt gagtaaagtc aaataactgt tagtaatttg aaggatatgg gacaggagga cagtatttca gaaaaggaga ggttgacagt catccacaag gcatagctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacatt tagaatgagg gcctttagtt taaattaaaag tcatggtgga gaagactctt gcttccacca agtgtttgaa acacaaaaat acgatataaa aaaaaaaa aaaa </p>	Homo sapiens
220	3596	Purinerigic Receptor P2Y5	NM_005767	<p> ILPEFKQNGD TSL </p> <p> ctgatgaaag tgcttccaaa ctgaaaaattg gacgtgcctt tacgatggta agcgttaaca A gctcccaactg cttctataat gactccttta agtacacttt gtatgggtgc atgttcagca tggtgtttgt gcttgggta gtatccaatt gtgttgccat atacatttc atctgcgtcc tcaaaagtccg aaatgaaact acaacttaca tgattaaact ggcaatgtca gacttgcttt ttgtttttac ttacccttc aggtattttt acttcacaac acggaattgg ccatttggag atttactttg taagatttct gtgatgctg ttataccaca catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctaccattt agtcaaaaga ctctaagaac caaaagaaat gcaagattg ttgcaactgg cgtgtggtta actgtgatcg gaggaaagtgc accgcctgt ttgtttcagt ctaccactc tcagggttaac aatgcctcag aagcctgctt tgaataattt ccagaagcca catggaaaac atactctca aggatgttaa tttcatcga atagtggga ttttttatt ctctaattt aaatgtaact tgttctagta tggtgctaaa aactttaacc aaaccagtta cattaagtag aagcaaaaa acaaaaaacta aggttttaaa atgattttt gtacatttga tcataattct ttctgtttt gtcccttaca atatcaatct tattttatat tctcttga gaacacaaac atttgttaat tgcctcagtag tggcagcagt aaggacaatg taccacatca ctctctgtat tgctgtttcc aactgttgtt ttgaccctat agtttactac ttacatcgg ttaacattca gaattcaata aaaaatgaaa </p>	Homo sapiens

Homo
sapiens

221 3596 Purinergic NP_005758.1
Receptor
P2Y5
actggtctgt caggagaagt gacttcagat tctctgaagt tcatggtgca gagaatttta
ttcagcataa cctacagacc ttaaaaagta agatatattga caatgaatct gctgcctgaa
ataaaaccat taggactcac tgggacagaa ctttcaag
MSDLLFVFTL YNDSFKYTL GCMFSMVFV GLVSNCAIY IFICVLKVRN ETTTMINLA P
PFKSKTLRTK PPRIFYFTR NWPFGDLCK ISVMLFYTNM YGSILFLTCI SVDRELAIVY
LSRIVIFIEI VGFPIPLIN WLTVIGGSAP AVFVQSTHSQ GNNASEACFE NFPEATWKTY
CFVPYNINLI LYSLVRTQTF VNCSSVMVLR TMYPIITLCIA VSNCCFDPIV YYFTSDTIQN
SIRMKNWSVR RSDFRFSEVH GAENFIQHNL QTLKSKIFDN ESAA

Homo
sapiens

222 3597 Purinergic NM_004154
Receptor
P2Y6
aaggacagag gaggggacct tctgttcagc tggctgggag cagagggtggc ttgtctttt A
cggaagaact ggttctgtgg aatttgtgt tatttcccat caaggatcaa ggacctgctc
tggggctacc tcaggggccc acaggatgag gggctggttt tcagatgagt ttctgcttg
cctgtcatct ggatagtgtc taaaaatttg caaactgctc tcttgteagt gcttgctca
ttcttcata cactcctgat atgtctctca gtttccctct ctgctgcttc tccagacttc
tgccagaaca ttgcacgga cagtttcagg cacagaactg actggcagca ggggctgctc
cacgagtggg aatttgtctc agcatttcac ggactgcaag cgaggcactt gtaactctt
ggataaaca acccttgcca gaagaacctat ggctttggaa ggcggagtgc aggtgagga
gatgggtgcg gtcctcagtg agccccctgc tccctgaaca taggaacct accctggcag
ccatggaaatg ggacaaatggc acaggccagg ccttggtggt gccaccacc accctggtct
accgcgagaa cttcaagcaa ctgctgctgc cacttggtga ttgcgggtg ctggcggtg
gctgcccgt gaacatctgt gtcattacc agatctgcac gtcccgccg gccctgacc
gcacggccgt gtacacctta aacctgtctc tggctgacct gctatatgac tgtccctgc
ccctgctcat ctacaactat gcccagggtg atcactggcc ctttggcgac ttgcctgccc
gctggtccg cttcctcttc tatgccaacc tgcacggcag cctcctcttc ctacactgca
tcagcttcca gcgtacctg ggcatctgcc acccgctggc cccctggcac aaagtgggg
gcgcgcgggc tgcctggcta gtgtgtgtag ccgtgtggt ggccgtgaca acccagtgc
tgccacagc catcttcgt gccacaggca tccagcgtaa ccgcactgtc tgctatgacc
tcagccccgc tgcctggcc accactata tgcctatgg catggctctc actgtcatcg
gttctctgt gccctttgt gccctgctgg cctgtactg tctcctggcc tgcgcctgt
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tggccgtggt ggtggctgct gcccttgcca tcagcttctt gccttttcac atcaccaaga
cagcctacct ggcagtgcg tcgacgcgg gcgtccctct cactgtattg gaggcctttg
cagcggccta caaaggcaag cggccgtttt ccagtgccaa cagctgtgtg gacccatcc
tcttctactt caccagaaag aagtccgcc ggcgaccaca tgagctccta cagaaactca
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tcagctcagc tgggcatgga gtaagatcc ctacagagc ccagaagctc accaaaaact
atttcttcag ccccttctct gcccagacc ctgtgggcat ggagatggac agacctgggc
ctggctcttg agagggtccc gtcagccatg gagagctggg gaaaccacat taagtgctc
acaaaaatac agtgtgacct gtactgtcaa aa

223	3597	Purinerigic Receptor P2Y6	NP_004145.1	MEWNDNGTGOA	IGLPTTCVY	RENFQLLLP	PVYSAVILAAG	LPINICVITQ	ICTSRRALTR	P	Homo sapiens
					TAVYTLNLAL	ADLLYACSLP	LLIYNYAQGD	HWFFGDFACR	LVRFLFYANL	HGSILFLTCI	
					SFQRYLGICH	PLAPNHRGG	RRAAWLVCA	VWLAVTTQCL	PTAIFAATGI	QRNRTVCYDL	
					SPPALATHYM	PYGMALTVIG	FLPFAALLA	CYCLACRLC	RODGPAPVA	QERRGKAARM	
					AVVAAAFAI	SFLPHITKT	AYLAVRSTPG	VPCTVLEAFA	AAKYGTRPFA	SANSVLDPIIL	
					FYFTQKKFRR	RPHELLQKLT	AKWQRQGR				
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	cctaccggtc	catagtgta	gagtgtgaa	ccctcgagc	cagcaggcct	cctgaaaaaa	A	Homo sapiens
				aagtccatgg	gtgacagaag	atccattgac	ttccaattcc	aagattccaa	ttcaagcctc		
				agaccceaggt	tgggcaatgc	tactgccaat	aatacttgca	ttgttgatga	ttccttcaa		
				tataatctca	atgggtgtgt	ctacagtgtt	gtattcatct	tgggtctgat	aaccaacagt		
				gtctctctgt	ttgtctctgt	tttcgcgatg	aaaatgagaa	gtgagatgc	tattttttatc		
				accaatctag	ctgtctctga	tttgcttttt	gtctgtacac	taccttttaa	aatattttac		
				aacttcaacc	gccactggcc	ttttgtgac	acctctgca	agatctctgg	aactgcattc		
				cttaccaca	tctatggag	catgctctt	ctcaactgta	ttagtgtgga	togtttccctg		
				gccatttgtct	atccttttctg	atctctgact	attaggacta	ggaggaaattc	tgccattgtg		
				ttgtctgtgtg	tctggatcct	agtcctcagt	ggcggtattt	cagcctcttt	gttttccacc		
				actaatgtca	acaatgcaac	caccactgc	tttgaaggct	tctccaaacg	tgtctggaag		
				acttatttat	ccaagatcac	aataatttat	gaagtgtgtg	ggtttatcat	tectctaata		
				ttgaatgtct	cttgctcttc	tgtgtgtgtg	agaactcttc	gcaagcctgc	tactctgtct		
				caaatggga	ccaataagaa	aaaagtactg	aaaatgatca	cagtacatat	ggcagtcttt		
				gtggtatgct	ttgtacccta	caactctgtc	ctctcttgtt	atgcccctgg	gcgctcccaa		
				gctattacta	attgcttttt	ggaaagattt	gcaaatgatca	tgtacccaat	caccttgtgc		
				cttgcaactc	tgaactgttg	ttttgacct	ttcatctatt	acttcacct	tgaatccttt		
				cagaagtcc	tctacatcaa	tgcccacatc	agabtgaggt	cctctgttaa	gactgaaaca		
				cccttgacca	caaaagcctc	ccttccagct	attcaagagg	aagtgaagtga	tcaaacacaa		
				aataatgggt	gtgaattaat	gctagaatcc	accttttagg	tatgagaaat	gtgttcaggt		
				ccagatatgg	ttctcctat	aattttctct	atgctataaa	ctaaagattt	gaagctaattg		
				atactgagaa	taatgcacca	aatccagtca	gatacaatttg	tttgaaggta	tactgtagag		
				ttttttattgc	tgttttgttc	agtaattata	ggtcaaatct	aattacaaca	accaagatgg		
				attgccaaac	tcttctgctt	ggttgggaatt	tcatgtatc	gcattatcca	gggtggctagt		
				ggcatttgtat	aatatagaga	tgactttgaa	actttcaaaa	aggtattttct	attccaatga		
				tattttggtaa	ttaggttggg	cctataaata	tagaacaatt	tcaggatttt	ttaaaaaatt		
				gtgttactac	tgatatatgc	tagttttatt	ttattttttt	ggactgtcat	tgagtttttat		
				ttagcacaag	aataatttta	gcctaacatt	attaataaga	aatgtgtcaa	atttttaaca		
				ttggtaaaat	atgttatgtg	cattttgaaa	acagaaacaa	aatgggtgtg	gcattgtacgt		
				gggtgggaag	aaaaagaaaa	ttaacaggat	ttacacaatt	ataatcacca	gcagtgtgag		
				tttaaaaaac	ttcgttgttt	ttacaccaaa	ttaaaatttt	catgtcaaac	ttcaagcca		
				gaaaagctgct	aaatcgtgtg	ctggcaggta	aaaagtggaa	aattacttaa	acagggaaaag		
				tgtcaataaa	aaaacttgag	caacaccaac	atattttttc	ttaaaatgtc	acgttatctt		
				cattttggga	aactaggttc	tataaaatat	ttatctctcc	tgttatactt	tggagcacag		
				cacagccaga	aaggggctgc	atttgtgccc	aggtcaggag	caaatgtgaa	aaaaataata		

225	3599	G Protein- Coupled Receptor 23 (GPR23)	NP_005287.1	<p>agtaatacta aaaaatcaaa ctataaaccc aaaaacattta ttaaaacctg aattaatcct ttdtggagg agtagtagg atataaac tgaaaaatct tattcttct tctgaattt tgagacctaa tatagccagg agctgctgaa tttgtgcccc tggattggaa ccaataaaaa aaaaaaaa aaaaattcct</p> <p>MGDRRFIDFQ FQDSNSSLRP RLGNATANNIT CIVDDSFKNV LAGAVYVVVF ILGLITNSVS P LFVFCFRMKM RSETAIFITN LAVSDLLFVC TLPEKIFYNF NRHPWFGDTL CKISGTAFLT NIYGSMLFLT CISVDRFLAI VYFPRSRTIR TRNSAIVCA GWILVLSGG ISASLFSITT VNNATTTCFE GFSKRVMKTY LSKITIFIEV VGFIPLILN VSCSSVVLRT LRKPATLSQI GTNKKKVLKM ITVHMAFVV CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITLCLA TLNCCFDFFI YYFTLESFQK SFYINAHIRM ESLEKTTETPL TTKPSLPAIQ EEVSDQTNN GGELMLESTF</p>	Homo sapiens
226	3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	<p>ggccgggtggc ccgggcccga ccacccagc tgcgctcgt tactggccac agtttgctc A tgggccagcc agttggcga ctgggaagct tctcccgccg tctggaggag ggtccctgct tcttcttaca gccgttccgg gcatggccgg gctggggggc tgcctccacg tctgggggtg gctaagtctc gccagctgcc tctggccag agccagctg gattctgat gcaccattac tatagaggag cagattgtcc ttgtgctgaa agcgaagaat caatgtgaac tcaacatcac agctcaactc caggaggagg aagtaattg tttccctgaa tgggatggac tcatgtgtg gccagagga acagtggga aaatatcggc tgttccatgc cctcctata tttatgactt caaccataaa ggagtgtctt tccgacactg taaccccaat ggaacatggg attttatgca cagcttaaat aaaacatggg ccaattattc agacttctgc gcgtttctgc agccagatat cagcatagga aagcaagaat tcttgaagc cctctatgta atgtataccg ttggctactc catctctttt ggttccctgg ctgtggctat tctcatcatt ggttactca gacgattgca ttgcactagg aactatatec acatgcactt atttgtgtct ttcattgctga gagctacaag catctttgtc aaagacagag tagtccatgc tcaatagga gtaaaaggagc tggagtccct aataatgcag gatgaccac aaaaattccat tgaggcaact tctgtggaca aatcacata tatcgggtgc agattgtctg ttgtgatgtt tatttacttc ctggctacaa attattattg gatcctgggtg gaaggtctct acctgcataa tctcatcttt gtggctttct tttcggacac caataacctg tggggcttca tcttgatagg ctgggggttt ccagcagcat ttgttcgagc atgggctgtg gcacagacaa ctctggctga tgcgaggtgc tgggaactta gtctggaga catcaagtgg atttatcaag caccgatctt agcagctatt gggctgaatt ttattctgtt tctgaatacg gtagagttc tagtaccacaa aatctgggag accaatgcag ttgggcatga cacaaggag caatacagga aactggccaa atcgacactg gtccctggctc tagtctttgg agtgcattac atcgtgttctg tatggctgcc tcaactcttc actgggctcg ggtgggagat ccgcatgcac tgtgagctct tcttcaactc ctttcagggt tcttttgtgt ctatcatcta ctgctactgc aatggagagg ttcaggcaga ggtgaagaag atgtggagtc ggtggaatct ctcgtggac tggaaaagga caccgccatg tggcagccgc agatgcggct cagtgctcac cacgtgacg cacagacca gcagccagtc acaggtggcg gccagcacac gcatgggtct tatctctggc aaagctgcca agatcgccag cagacagcct gcagccaca tcaactttacc tggctatgtc tggagtaact cagagcagga ctgcctgcca cactcttcc acgaggagac caaggaagat agtgggaggc agggagatga tatctaatg gagaagcctt ccaggcctat ggaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga</p>	Homo sapiens

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sapiens

227 3638 Parathyroid Hormone Receptor 2 (PTHr2) NP_005039.1
 MAGLGASLHV WGWMLGSL LARAQLSDG TITIEQIVL VLKAKVQCEL NITAQLQEGE P
 GNCFPEDWGL ICWPRGTGK ISAVPCPPYI YDFNHKGVAE RHCNPNGTWD FMHSLNKTWA
 NYSDCLRFLO PDISIGKEF FERLYVMYTV GYSISFGSLA VAILIIGYFR RLHCTRNYIH
 MHLFVSEMLR ATSIFVKDRV VHAHIGVKEL ESLIMQDDPQ NSIEATSVDK SQYIGCKIAV
 VMFIYFLATN YWILVEGLY LHNLIFFVAFF SDTKYLWGF IIGWGFPAF VAAWAVARAT
 LADARCWELS AGDIKIWOA PILAAIGLNF ILFLNTVRVL ATKIWETNAV GHDRKQYRK
 LAKSTLVVL VFGVHYIVFV CLPHSFTGLG WEIRMHCELF FNSFQGFVS IICYCNGEV
 QAEVKKMWSR WNLSDWKRT PFGSRRCS VLTIVTHSTS SQSQVAASR MVLISGKAAC
 IASRQPDISHI TLPGYWWSNS EQDCLPHSEH EETKEDSGRQ GDDILMEKPS RPMESNPDTE
 GCQGETEDVL

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228 3640 Parathyroid Hormone Receptor 1 (PTHr1) NM_000316
 CGGAGGGACG CGGCGCTAGG CGGTGGCGAT GGGGACCGCC CGGATCGCAC CGGCGCTGGC A
 GCTCCTGCTC TGCTGCCCCG TGCTCAGCTC CGCGTACGCG CTGGTGGATG CAGATGACGT
 CATGACTAAA GAGGAACAGA TCTTCCTGCT GCACCGTGCT CAGGCCAGT GCAGAAAACG
 GCTCAAGGAG GTCTGCGAGA GGCAGCCAG CATAATGGAA TCAGACAAGG GATGGACATC
 TGCGTCCACA TCAGGGAAGC CCAGGAAAGA TAAGGCATCT GGAAGCTCT ACCCTGAGTC
 TGAGGAGGAC AAGGAGGCAC CCACTGGCAG CAGGTACCAG GGGCGCCCT GTCTGCCGGA
 ATGGGACCAC ATCTGTGCT GGCCTGCGG GGCACCAAGT GAGGTGGTGG CTGTGCCCTG
 TCGGACTAC ATTATGACT TCAATCACA AGGCCATGCC TACCAGCTGT GTGACCGCAA
 TGCGAGCTGG GAGTGGTGC CTGGGCACAA CAGGACGTGG GCCAACTACA CGAGTGTGT
 CAAATTCTC ACCAATGAGA CTCGTGAACG GAGGTGTTT GACCGCTGG GCATGATTA
 CACCGTGGC TACTCCGTGT CCGTGGCTC CTCACCGTA GTGTGCTCA TCTGGCCTA
 CTTTAGCGG CTGCACGTGA CGCGCAACTA CATCCACATG CACCTGTTC TGTCTTCAT
 GTGCGCGCC GTGAGCATCT TCGTCAAGGA CGCTGTGCTC TACTCTGGC CCACGCTTGA
 TGAGGCTGAG CGCTCACCG AGGAGGAGCT GCGCGCATC GCCAGGCG CCGCGCGCC
 TGCCACCGC GCTGCCGCTG ACGCGGCTG GTGACCTTCT TCTTTACTT
 CCTGGCCACC AACTACTACT GGAATTCTGGT GGAGGGGCTG TACCTGCACA GCTCATCTT

229	3640	Parathyroid Hormone Receptor 1 (PTHRI)	NP_000307.1	<p> catggccttc ttctcagaga agaagtacct gtggggcttc acagtcttcg gctggggtct gccgcgtgc ttctgtgctg ttgtgggtcag tgtcagagct accctggcca acacgggtg ctgggacttg agctccggga acaaaaagtg gatcatccag gtgccatcc tggcctccat tgtgtcaac ttcatcctct tcatcaatat cgtccgggtg ctcgccacca agctcgggga gaccaacgcc gcccggtgtg acacacggca gcagtaccgg aagctgtcca aatccacgct ggtgtctatg cccctctttg gcgtccacta catgtcttc atggccacac catacacga ggtctcaggg acgctctggc aagtccagat gcactatgag atgtcttcca actccttcca gggattttt gtgcgaatca tatactgttt ctgcaatggc gaggtacaag ctgagatcaa gaaatcttgg agccgtgga cactggcact ggacttcaag cgaaggcac gcagcgggag cagcagctat agctacggcc ccatgggtgc ccacacaagt gtgaccaatg tcggccccc tgtgggactc ggctggccc tcagccccc cctactgcc actgccacca ccaacggcca cctcagctg cctggccatg ccaagccagg gacccacgct ctggagaccc tcgagaccac accacctgcc atggctgtc ccaaggacga tgggttcttc aacggctcct gctcaggcct ggacgaggag gccctgggc ctgagcggcc acctgccctg ctacaggaag agtgggagac agtcatgtga ccaggcgtg ggggctggac ctgctgacat agtggatgga cagatggacc aaaaagatgg tgggtgaatg atttccact cagggcctgg ggccaagagg aaaaacaggg aaaaaagaa aaaaaaaga aaaaggaa </p>	Homo sapiens
230	3732	PACAP Receptor Type 1	NM_001118	<p> agccacagaga cacattgggg ctgacctgcc gctgctgtca gtgggaggcc agtgggtgctg A gccagaagt gtcatggctg gtgtcgtgca cgtttccctg gctgtcact gcggggcctg tccgtggggc cggggcagac tccgcaaaag acgcgcagcc tgcaagtcgc cggccacag acacattggg gctgacctgc cgtgctgtc agtgggaggc cagtgggtgct ggccaagaag tgtcatggct ggtgtcgtgc acgtttccct gctgtcttc ctcctgctgc ctatggcccc tgccatgcat tctgactgca tcttcaagaa ggagcaagcc atgtgcctgg agaagatcca gagggccaat gagctgatgg gcttcaatga ttccttcca ggcgtcctg ggatgtggga caacatcacg tgttgaagc ccgccatgt ggtgagatg gtcctggtca gctgccctga gctctccga atcttcaac cagaccaagt ctggagacc gaaacattg gagagtctga ttttggtag agtaactcct tagatcttc agacatggga gtggtgagcc ggaactgcac ggaggatggc tggtcggaac ccttccctca ttactttgat gctgtgggt ttgatgaata tgaatctgag actggggacc aggattatta ctactgtca gtgaaggccc tctacagggt tggctacagc acatccctcg tcacctcac cactgacctg gteatccttt gtcgcttccg gaagctgcac tgcacacgca acttcatcca catgaacctg tttgtgtcgt tcatgctgag </p>	Homo sapiens

231 3732 PACAP Receptor Type 1 NP_001109.1 Homo sapiens

ggcgaatccc gtcttcatca aagactggat tctgtatgag gacgaggaca gcaaccactg
cttcattccc actgtggaat gtaaggccgt catggttttc ttccactact gtgttgtgtc
caactacttc tggctgttca tcgaggccct gtacctcttc actctgctgg tggagacctt
cttccctgaa aggagatact tctactggta caccattcat ggctggggga ccccaactgt
gtgtgtgaca gtgtgggta cgctgagact ctactttgat gacacaggct gctgggatat
gaatgacagc acagctctgt ggtgggtgat caaaggccct gtggttgctt ctatcatggt
taactttgtg ctttttatg gcattatctg catctctgt cagaaacttc agtctccaga
catgggaggc aatgagtcca gcatctactt gcgactggcc cggctccacc tgctgctcat
ccactatttc ggaatccact acacagtatt tgccttctcc ccagagaaatg tcagcaaaaag
ggaagactc gtgtttgagc tggggctggg ctccctccag ggctttgtgg tggctgttct
ctactgtttt ctgaatgggt aggtacaagc ggagatcaag cgaataatggc gaagctggaa
ggtgaacctg tacttcgctg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg
ggtgaatggg ggcacccagc tctccatctt gagcaagagc agtccccaaa tccgcatgtc
tggcctccct gctgacaatc tggccacctg agccatgtc cccct

MAGVHVSLA AHCGACPWGR GRLRKGRAAC KSAQRHIGA DPLLSVGGQ WCWPRSVMAG P
VVHVSLAALL LLPMAPMHS DCIFKKEQAM CLEKIQRANE LMGFNDSSPG CPGMWDNITC
WKPAHVGMV LVSCPELFRI FNPQVWETE TIGESDFGDS NSLDLSDMGV VSRNCTEDGW
SEPFPHYFDA CGFDEYEST GDQDYLYLSV KALYTVGYST SLVTLTTAMV ILCRFRKLHC
TRNFIHMNLF VSFMLRAISV FIKDWILYAE QDSNHCFIST VECKAMVFF HYCVWSNLYFW
LFIEGLYLFY LLVETFFPER RYFVWYTIIG WGTPTVCVTV WATRLYFDD TGCWDMNDST
ALWVVIKGPV VGSIMVNFVL FIGIIVILVQ KIQSPDMGNN ESSIYLRAR STLLIPLFG
IHYTVFAFSP ENVSKRERLV FELGLGSFQG FVAVLYCFL NGEVQAEIKR KWRSWKVNRY
FAVDFKRRHP SLASSGVNGG TQLSILSKSS SQIRMSGLPA DNLAT

232 3844 Apelin Receptor NM_005161 Homo sapiens

atggaggag gtggtgatt tgacaactac tatggggcag acaaccagtc tgagtgtgag A
tacacagact ggaatacttc gggggccctc atccctgcca tctacatgtt ggtcttcttc
ctggggcacc cgggaaacgg tctggtgctc tggaccgtgt ttcggagcag ccgggagaaag
aggcgctcag ctgatatctt cattgctagc ctggcggtgg ctgacctgac ctctgtggtg
acgtgcccc tgtggggtac ctacacgtac cgggactatg actggccctt tgggaccttc
ttctgcaagc tctcgagcta cctcatcttc gtcaacatgt acggcagcgt ctctgacctc
accggcctca gcttcgaccg ctacctggcc atcgtgaggc cagtggccaa tgctcggtg
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gccatgcctg tcatggtgtt acgacccacc ggggacttgg agaaccacc taaggtgcag
tgctacatgg actactccat ggtggccact gtgagctcag agtgggacctg ggaagtgggc
cttgggggtct cgtccaccac cgtgggcttt gtggtgacct teaccatcat gctgacctgt
tacttcttca tgcgccaaac catcgctggc cactccgca aggaacgcac cgaggggcctg
cggaagcggc gccggctgct cagcatcacc gtggtgctgg tggtagacct tgcctgtg
tggatgccct accacctggt gaagacgctg tacatgctgg gcagacctgt gcaactggccc
tgtgactttg acctcttctt catgaacatc ttccctact gcaactgcat cagctacgtc
aacagctgcc tcaacccctt cctctatgcc ttctcgacc ccggttccg ccaggcctgc
acctccatgc tctgctgtgg ccagagcagg ttcggaggga cctccacag cagcagtggg
gagaagtcat ccagctactc ttccggggcag agccaggggc ccggcccccac catgggcaag

233	3844	Apelin Receptor	NP_005152.1	ggtggagaac agatgcacga gaaatccatc ccctacagcc aggagaccct tgtggttgac tag	Homo sapiens
				MEEGGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFV TLPLWATYTY RDYDWPFGTF FCKLSSYLIF VNMVYASVFL TGLSFDRLYA IVRPVANARL RLRVSGAVAT AVLWVLAALL AMPVMVLRRT GDLENTTKVQ CYNDYSMTAT VSSEMAWEVG LRVSSTTVGF VVPFTIMLTC YFFIAQTIAT FPKKERIEGL RKRRRLLSII VLVVATFALC WMPYHLVKTL YMLGSLHWP CDFDLFLMNI FPYCTCISYV NSCLNPFLLYA FFDPRFRQAC TSMMLCCGQSR CAGTSHSSSG EKSASYSSGH SQGPGPNMGK GGEQMHEKSI PYSQETLVVD	
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072	gaattcggca cgagtcaggg aagcagcccc ggcgccagc aggagactca ggacagagca A ggctccctgg gaagcctcgg ggtgataggg gtgttcacgc tgcggcgctc tgggggttca gagggggatc ttgaatgaac aaatgaatga actgctttct gggcaaacag ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgcaag tctcccaac agcctcgagt ggcctgcagt cacagggaac cctcagggaag accttcggg cagagaccag agggaaagccc atctctccag cagaactgct ctgagatgct aggtctgggac tagcacagca tcacttctac atagcagaag ctgagtgcat ctgagatgct aactcaccat gccagtgcag attcaagggg aggagaaata cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggagaaata gagtcaccat ctgtgatggga ggcgtgacat agaattggag atgaagatta caacacttcc atcagttacg gtgatgaata ccttgattat ttagactcca ttgtggtttt ggaggactta tcccccttgg aagccagggt gaccaggatc ttccctgggtg tgggtctacag catcgtctgc ttcctcggga ttctgggcaa tggctctggg atcatcattg ccacttcaa gatgaagaag acagtgaaca tggctctggtt cctcaacctg gcagtggcag atttctcttt caacgtcttc ctcccaatcc atatacacta tggcgccatg gactaccact ggggttttcgg gacagccatg tgcaagatca gcaacttcc tctcatccac aacatgttca ccagcgtctt cctgctgacc atcatcagct ctgaccgctg catctctgtg tctctccctg tctggtccca gaaccaccgc agcgttcgcc tggcttacat ggcctgcagt gtcactctgg tccctggcttt cttcttgagt tccccatctc tctgtcttcc ggacacagcc aacctgcag ggaaaaatc ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tctgtgccc ctcactccca aatggaccct gtgggggtata gccggcacat ggtggtgact gtcacccgct tccctgttgg cttccttggtc ccagtcctca tcatcacagc ttgtacctc accatcgtgt gcaaaactgca gcgcaaccgc ctggccaaga ccaagaagcc cttaagatt attgtgacca tcatcattac cttcttctc tgtgtgtgcc cctaccacac actcaacctc ctgagagctcc accacactgc catgcctggc tctgtcttca gctggggttt gccctggcc actgcccctt ccattgccc cagctgcatg aaccctatc tctgtgtttt catgggtcag gacttcaaga agttcaaggt ggccctcttc tctcgcctgg tcaatgctt aagtgaagat acaggccact cttctacccc cagccataga agctttacca agatgtcatc aatgaatgag aggacttcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaaccttca atggactctc tcaaccagg gacacccaag gatatgtctt ctgaagatca aggcaagaac ctcttttaga tccaccaatt ttcactgcat tttgcatggg atgaacagtg ttttatgctg ggaatctag gcttggaaac cctttcttct agtggaacaga acatgctgtg ttccatacag ccttggacta gcaatttatg cttcttggga ggccagcctt gactgactca aagcaaaaaa ggaagaattc	Homo sapiens

240	3848	C-C	NM_006641	Chemokine Receptor 9	<p> NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LVKSSSRKVA NHNNSERSMA LLRTVIVVS VFIACWSPLF ILFLIDVACR VQACPILFKA QWFIVLAVLN SAMNPVIYTL ASKEMRRAFF RLVCNCLVRG RGRASPIQP ALDPSRSKSS SSNNSSHSPPK VKEDLPHTDP SSCIMDKNAA IQNGIFCN gcccctcatc ccaggcgagag agcaaccccag ctctttcccc agacactgag agctggtggt A gctgtgctgc ccaggcgagag ttgcatcgcc ctccacaagc cctattccta acatggctga tgactatggc tctgaatcca catcttccat ggaagactac gtaacttca acttactga cttctactgt gagaaaaaca atgtcaggca gtttgcgagc catttccctc cacccttga ctggctcgtg ttcatcgtgg gtgccttggg caacagtcct gttatccctg tctactggta ctgcacaaag gtgaagacca tgaccgacat gttccttttg aatttgcaaa ttgctgacct cctctttctt gtcaactctt ccttctgggc cattgtgct gctgaccagt ggaagtcca gaccttcatt tgcaagggtg tcaacagcat gtacaagatg aacttctaca gctgtgtgtt gctgatcatg tgcatcagcg tggacaggta cattgccatt gccaggcca tgagagcaca tacttggagg gagaaaaggc ttttgtacag caaaatggtt tgctttacca tctgggtatt ggcagctgct ctctgcaccc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc accatgggtt accctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcatctcgg ggttcttctt tccctcgtg gtcattggctt gctgctatc catcatcatt cacaccctga tacaagccaa gaagtcttcc aagcacaaag cctaaaaagt gacctcact gtctgacccg tctttgtctt gtctcagttt cctacaaact gcattttgtt ggtgcagacc attgaagcct atgccaatgt cagcttcttc cacagtgcg tgaacctgt tgacatctgc ttccaggtca cccagaccat cgccttcttc cagagtgcg tgaacctgt tctctatgtt ttgtggtgtg agagattccg ccgggacttc gtgaaaacc tgaagaactt gggttgcatc agccaggccc agtgggttcc atttacaagg agagaggga gcttgaagct gtcgtctatg ttgctggaga caacctcagg agcactctcc ccttgagggt tcttctcga gggtgatggt tcttttgga gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagagt gaaagagaaa agaaaactca gaaagggatg aatctgaact atatgattac ttgtagtcag aatttgcaa agcaaatatt tcaaatcaa ctgactagt caggaggctg ttgattggct ctgactgtg atgcccgcaa ttctcaagg aggaactaagg accggcactg tgagacccc tggctttgcc actgcgagg gcatcaatgc cgtgcctct ggaggagccc ttggattttc tccatgcact gtgaacttct tgggcttcag ttctcatgct gcctctcca aaaggggaca cagaagcact ggtgctgct acagaccgca aaagcagaaa gtttcgtgaa aatgtccatc ttgggaaat ttctaccct gctcttaccg ctgataaacc atgccaggtc ttatagattc ctgactaga acctttccag gcaatctcag acctaatctt ctctgttct cctgttctg ttctgggcca gtgaaggtcc accacaagg catccaaagt ctggtggctt ttgccagtga accctggac aactgaccac accacaagg catccaaagt ctggtggctt ccaatccatt tctgtgctc gctggagggt ttaacctaga caaggattcc gcttattcct tggatgggtg acagtgtct tccatggcct gacagggag attataacag ctgggttcgc aggagccagc ctggccctg ttgtaggctt gttctgttga gtggcactg ctttgggtcc accgtctgc tgctccctag aaatgggtg ggttcttttg gccctcttct tctgaggcc cactttattc tgaggaatc agtgagcaga tatgggcag agccaggtag ggcagaagggg tgaagcgccag gccttctggt aaggtattt acttccatgc ttctctttt cttactctat </p>	Homo sapiens
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241	3848	C-C Chemokine Receptor 9	NP_006632.2	MADDYGESEST YWYCTRVKTM CVLLIMCISV SGIAICTMVY LKVTITVLTV NPVLYVFGE	SSMEDYVNFN TDMFLNLAI DRYIAIAQAM PSESTKLKS FVLSQFPYNC RFRRLVKTLL	FTDFYCEKNN ADLLFLVLTP RAHTWREKRL AVLTILKVILG ILLVQTIDAY KNLGCISQAQ	VRQFASHFLP FWAIAAADQW LYSKMVCFTI FFLPFVVMAC AMFISNCAVS WVSFTRREGS	PLYWLVFIVG NSMYKMNFFYS EILYSQIKEE QAKKSSKHKA QTIAFFHSCL TSGALSLL	Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279						Homo sapiens
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1						Homo sapiens
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248						Homo sapiens

Homo
sapiens

245 3850 G Protein-
Coupled
Receptor 10
(GPR10) NP_004239.1
gcttcgagc cagcgggctg ggtgttcggc ggcgccctgt gccacctggt cttcttcttg
cagccggtca ccgtctatgt gtcggtgttc acgctacca ccacgcagtg gacccgctac
gtcgtgctgg tgcaccgctt gaggcggcgc atctcgctgc gcctcagcgc ctacgctgtg
ctggccatct gggcgctgtc cgcggtgctg gcgtgcccc cgcgctgca cactatcac
gtggagctca agccgaacga cgtgcccctc tgcgagagt tctggggtc ccaggagcgc
cagcggcagc tctacgctg ggggctgctg cgtgtcacct acctgtccc tctgctggtc
atcctcctgt cttacgctcg ggtgtcagt ggtgtcagc acgctggtt gccgggctgc
gtgacccaga gccaggccga ctgggacgcg gctcggcgc ggcgcacct ctgcttctg
gtgggtgctg tgggtgtgtt cgcgctgctg tggctgcgc tgcagctctt caacctgctg
cgggacctcg accccacgc catcgacct catgacctt ggcctgtac tctacgctg gctgcacgac
cactggctcg ccctgagttc ggcctgtctc aacctgttg tctacgctg gccccccat
agcttcgctg aggagctgcg caaactgttg gtcgctgctg ccgcaagat agcccccat
ggccagaata tgaccgtcag cgtggtcctc tga
GLIVLLYSV VVGLVGNCL LVLVIARVR LHNTNFIIG NLALSDVLMC TACVPLTLAY
AFEPGRGWFG GGLCHLVFFL QPVTIVSVF TLTTIAVDY VLVHPLRRR ISLRLSAYAV
LAIWALSAVL ALPAAVHTYH VELKPHDVR LCEEFGSQER QRQLYAWGLL LVTYLLPLLV
ILLSYVRVS KLNRNVPGC VTQSQADWDR ARRRRTFCLL VVVVVFVAVC WLPLHVFNL
RDLDPHADP YAFGLVQLLC HWLAMSSACY NPFIYAWLHD SFREELRKL VAWPRKIAPH
GQNMVTSVVI

Homo
sapiens

246 3851 G Protein-
Coupled
Receptor
GPR12 NM_005288
atgaatgaag acctgaaggt caatttaagc gggctgcctc gggattattt agatgcgct A
gctcgggaga acatctcggc tgctgtctcc tcccgggttc ctgcgctaga gccagagcct
gagctcgtag tcaacccctg ggacattgtc ttgtgtacct cgggaacctt catctcctg
gaaaatgcca ttgtgtcctt tctcatcttc cacaacccca gctgcgagc acctatgtt
ctgctaatag gcagcctggtc tottgacagc ctgctggcgg gcatgggact catcaccaat
ttgttttttg cctacctgct tcagtcagaa gccaccaagc tggctacgat cgccctcatt
gtcgctctct tctctgcctc tgcctgcagc ttgctggcta tcactgtga ccgtacctc
tcaactgtact acgctctgac gtaccattcg gagaggacgg tcaagtctac ctatgtcatg
ctcgtcatgc tctggggggac ctccattcgc ctggggctgc tggccgtcat gggctggaac
tgccctccag acgagtcac ctgcagcgtg gtcagaccgc tcaccaagaa caacgcggcc
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tgtaagattg tgatgaggca cgcctcatcag atagccctgc agcaccatt cctggccacg
tcgcactatg tgaccacccg gaaagggtc tccacctgg ctatcatcct ggggacctt
gctgcttctg gcatgctctt caccctctat tcttgatag cggattacac ctaccctcc
atctatacct acgccacct cctgcccgc accataaatt coactacaa cctgtcata
tatgctttca gaaaccaaga gatccagaaa ggcctctgct tcatgtgctg cggctgcatc
ccgtccagtc tcgcccagag agcgcgctcg cccagtgtg ttag
MNEDLKWNLS GLPRDYLDAA AENISAASV SRPAVEPEP ELVNPWDIV LCTSGTLISC P
ENAIIVLIIIF HNPISRAPMF LLIGSLALAD LLAGLGLITN FVFAYLLQSE ATKIVTIGLI
VASFSASVCS LLAITVDRL SLYALTYHS ERIVTFTYVM LVMLNGTSIC LGLLPVMGWN
CLRDESTCSV VRPLTKNNA ILSVSFLMF ALMLQLYIQI CKIVMRHAHQ IALQHHFLAT

Homo
sapiens

247 3851 G Protein-
Coupled
Receptor
GPR12 NP_005279.1

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAIIIGTF AACWMPFTLY SLIADYTPS IYTYATLLPA TYNSIINPVI YAFRNQEIQK ALCIIICGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtcac cgccaggcct tcaccatgga tcagttccct A gaatcagtgga cagaaaactt tgaatcagat gatttggctg aggcctgtta tattggggagc atcgtgtgtc ttgggactgt gttcctgtcc atatttact ccgtcatctt tgccattggc ctggtgggaa atttgttgtt agtgtttgcc ctcaccaaca gcaagaagcc caagattgtc accgacattt acctcctgaa cctggccttg tctgatctgc tgttttagc cactttgccc ttctggactc actatttgat aatgaaaaag ggctccaca atgccatgtg caaattcact accgcttctt tcttcacatgg ctttttttga agcatattct tcatcacctg catcagcatt gataggtacc tggccatcgt cctggccgcc aactccatga caaacggagc cgtgcagcat ggcgtcaca tcagcctagg cgtctgggca gcagccattt tgggtggagc acccagttc atgttcacaa agcagaaaaa aatgaatgc cttgtgtact acccgaggt ccttcaggaa atctggcccg tgcctcgcaa tctggaaca aattttcttg gcttccact cccctgctc attatgagt attgtactt cagaaatcac cagacgctgt ttctctgaa gaaccacaag aaagccaaag ccattaaact gatccttctg gtggtcatcg tgttttctt cttctggaca ccctacaacg ttatgatttt cctggagacg cttaaagctct atgacttctt tcccagttgt gacatgagga aggatctgag gctggccctc agtgtgactg agacggttgc attagccat tgttgctga atcctctcat ctatgcattt gctggggaga agttcagaag atacctttac cacctgtatg gaaaatgctt gctgtcctg tgtgggctc cagtccacgt tgatttctcc tcatctgaat cacaaaggag caggcatgga agtgttctga gcagcaattt tacttaccac acgagtgtg gagatgcatt gctccttctc tgaagggaat cccaaagcct tegtctaca gagaacctgg agttcctgaa cctgatgctg actagtggag agattttttg ttgttatttc ttacaggcac aaaaatgatg acccaatgca cacaaaacaa ccttagagtg ttgttgagaa tttgtctcaa aatttgaaga atgaacaaat tgaactcttt gaatgacaaa gactagacat ttctcttact gcaaatgtca tcagaaacttt ttggttttga gatgacaaaa attcaactca gactagtta gtaaatgag ggtgtgtaat attgttcata ttgtggcaca agcaaaaagg gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta MDQFPESVTE NFEYDDLAE CYIGDIVFG TVFLSIFYSV IFALGLVGNL LVVEALTNSK P KPKSVTDIYL LNLALSDLLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVQHGVITIS LGWAAAILV AAPQFMFTKO KENECLGDYP EVLQEIWPVL RNVTNFTLGF LPLLLIMSYC YFRIIQTLS CNHKKAKAI KLILLVIVF FLFWTPYNVM IFLETCLKLYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRYLYHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NPTYHTSDGD ALILL atgggacccag aagaaacttc agtttatttg gattattact atgctacgag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctctg tcttcttcc agtcttttac acagctgtgt tctgactgg agtgcctggg aacctgttgc tcatgggagc gttgcatttc aaacccggca gcgaagact gatcgacatc ttatcatca atctggctgc cctgacttc atttttcttg tcatatgcc tctctgggtg gataaagaag catctcagg actgtggagg acgggctcct tctctgcaa agggagctcc cagtcaatat gcactgcagt gtcctcctgc tcaattgcat gagtgttgac cgctacctgg ccattgtgtg gccagtcgta tccaggaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1		Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290		Homo sapiens

3853 Homo sapiens

NP_005281.1
G Protein-Coupled Receptor GPR15
MDPEETSVYL DYVYATSPNS DIRETHSHVP YTSVFLPVFY TAVFLTGVLG NLVIMGALHF P
KPGSRRLIDI FIINLAASDF IFLVTLPLMV DKEASLGLWR TGSFLCKGSS YMI SVNMHCS
VLLLTCSVD RYLAIVPVPV SRKFRRTDCA YVVCASIWFI SCLLGLPTLL SRELTLIIDDK
PYCAEKKATP IKLIWSLVAL IFTFFVPLLS IVTCYCCIR KLCAYQQSG KHNKKLKSI
KIIFIVVAAF LVSWLPFNTF KFLAIVSGLR QEHYLP SAIL QLGMEVSGPL AFANSCVNP
IYVIFDSYIR RAIVHCLCPC LKNYDFGSST ETSDSHLTKA LSTFIHAEDF ARRRKRSVSL
gaaagagaca aagcagcaat taaagtcagc ccagcaccaa ctcgcagcc aagcgttaca A
ctggaacta ctttttaag caacaaaaga gctaaaaca aatacaaca tttcttaaat
acactgttc cagaaagagc tattttaaca gaagcaactc aaagataacc cttcgacaga
agtggaaagt ctgaaaaatg ctcatctctc acacagactt ttgatggaca ggagtttcta
agtatcatgc ctaccaacaa gctgtaaaat gatcacctcg acaaatcaag atcaacctgt
cccttttaac agctcacatc cagatgaata caaaattgca gcccttgtct tctatagctg
tatcttcata attggattat ttgttaacat cactgcatta tgggttttca gttgtaccac
caagaagaga accacggtta ccatctatat gatgaatgtg gcattagtgg acttgatatt
tataatgact ttaccttttc gaatgtttta ttatgcaaaa gatgaatggc catttggaga
gtacttctgc cagatttctg gagctctcac agtgttttac ccaagcattg ctttatggct
tcttgccttt attagtctg acagatacat ggccattgta cagccgaagt acgcaaaaga
acttaaaac acgtgcaag ccgtgctggc gtgtgtggga gtcgtgataa tgacctgac
cagaccacc cctctgctac tgctctataa agaccagat aaagactcca ctcccggcac
ctgcctcaag atttctgaca tcatctatct aaaagctgtg aactgtctga acctcactcg
tcataatctc cttcacggca ggacgtctaa gctgaaccc aaagtcaagg agaagtccat
aaggatcatc atcacgctgc tgggtcaggt gctgctgcg tttatgccct tccacatctg
tttgccttc ctgatgctg gaacgggga gaacagttac aatccccggg gaccccttac
caccttctc atgaacctca gcacgtgtct ggtatgtatt ctctactaca tctgtttcaaa
acaatttcag gctcagatca ttagtgtcat gctataacct aattacctc gaagcatgcg
cagaaaaagt ttcogactcg gtatgtctacg gtcactaagc aatataaaca gtgaaatgtt
atgaataata aggttctttc atttcaatcc catcaaaat cacttacta actactctg
cgtcaatgga tattctgtat aatactatca agtccccctt ctcttgaaaa aataaattca
ttatcttcat tttaaaaaa aaaaaaaa

251 3853 G Protein-Coupled Receptor GPR15

252 3854 NM_005292
G Protein-Coupled Receptor GPR18

Homo sapiens

257	3856	G Protein- Coupled Receptor GPR2/CCR10	NP_057686.1	<p>ccacctgtc cagctggccc tggccgacct cttgtggcc ctgactctgc ctttcgggc agcaggggt cttcagggt gtagctggg aagtggccc tggccacca tctctggct ctactggcc tcttccacg ccggttctt cttctggcc tgtatcagc ccgaccgcta cgtggccatc gcgcgagcc tccagccgg gccgcccgc tccactccg gccgagaca cttggtctcc gtcactgtgt ggtgtgtgt actgtctctg gcgtgcttg cgtgtcttt cagccaggat gggcagcggg aaggccaacg acgctgtgc ctatcttcc ccgagggct cacgcagac gtgaaggggg cagcgccgt ggcgcaggtg gccctgggt tgcgctgcc gctggcgct atgttagcct gctacgcgt tctggggcgc acgtgctgg ccgccaggg gccgagcgc cggcgtgcg tgcgcgtgt ggtggctctg gtggcgctt tctgtgtgt gcagctgcc tacagcctc cctgtgtgt gatactgct gatctactg ctgcgcgca gcggagctg cctgccagca aacgcaagg tgcgcactg ctggtgacca gcggttggc cctgcgccg tgtggctca atccgttct ctacgcttc ctggcctgc gttccgcca ggacctggg agctgctac ggggtggag ctgcacctc gggcctaac ccgccgcgg ctgccccgc cggccccgc ttcttctctg ctacgtctcc acggagacc acagtcttc ctgggacaac taggctgctg aatctagag agggggcagg ctgagggtc tgggaaagg gagtaggtg gggaaacact agaaagagg agggacctaa agggactacc tctgtgctt gccacattaa attgataaca tggaaatgaa aaaaaaaa aaaa</p>	Homo sapiens
258	3857	G Protein- Coupled Receptor GPR20	NM_005293	<p>atgccctctg tgtctccagc ggggccctcg gccggggcag tccccaatgc caccgcatg A acaacagtgc ggaccaatgc cagcgggctg gaggtgccc tgttccacct gtttggccc ctggacagag agctgcatg cacttccca ggcctgtgc tggcgtgat ggcggtgcac ggagccatct tctggcagg gctggtgtc aacgggctgg cgtgtactg cttctgtgc cgcaaccggg ccaagacacc ctacgtcatc tacaccatca acctggtgt gaccgatca ctggtaggc tgtccctgc cagcgcttc gctgtgtact acggcgccag gggctgctg cgtgtgctt tccgcacgt cctcgtgtac ttcctcaaca tgcactgtc catcctctc ctcaactgca tctgctgga ccgtacctg gccactgtg gggccgaagc tcccgccgc tgcggccagc ctgctgtgc cagggccgtg tgcgcttgc tgtggctggc cgccggtgc gtcacctgt cgtgtctgg cgtgacagg agcggccct gctggcgtgt ctttgcgtg actgtcctg agttctctg gccctgtg gtcactcag tgtttaccg ccgcatcatg tgtgactgt cggggccggg tctgtccac cagggctgc agcgcgctg gggggccatg cagctcctg tcaagtgct catcatctt ctgctgtct tcaagccct ccacgcccgc caagtggccg tggcgctgt gccgacatg ccacaccaca ctagcctct ggtctaccac gtggcctga cctcagcag cctcaacagc tgcattgacc ccatcgtcta ctgcttctc accagtggct tccaggccac cgtccaggc cttctggcc agcaggaga gctgagccc agcagcgggt acgtggtcag catgcacag agtccaaag gctcaggccg tcatcacatc</p>	Homo sapiens

259	3857	G Protein- Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcaagc cctcaccag gccctggcta atgggcccga ggcttag MPSPVPAGPS AGAVPNATAV TTVRTNASGL EVPLFHLFAR LDEELHGTFF GLCVLMAVH P GAIFLAGLVL NGLALYVFC RTRAKTPSVI YTNILVVTDL LVGLSLPTRE AVYVGARGCL RCAFPVHVG FLNMHCSILF LTCICVDRYL AIVRPEAPAA CRQPACARAV CAFVWLAAGA VTLSVLGVTS SRPCCRFEAL TVLEFLPLL VLSVFTGLVH CALSRPGLLH QGRQRRVRAM QLLLTVLIIF LVCFTPFHAR QVAVALWPDH PHSTSLGVYH VAVTLSSLS CMDPIVYCFV TSGFQATVRG LFGQHGEREP SSGDVWSMRH SSKSGSRHHI LSAGPHALTQ ALANGPEA	Homo sapiens
260	3858	G Protein- Coupled Receptor GPR21	NM_005294	atgaactcca ccttggtatg taatcagagc agccaccctt ttgacctt ggcattggc A tatttgaaa ctgtcaattt ttgacctt gaagtattga ttattgtctt tctaactgta ttgattattt ctggcaacat cattgtgatt ttgtatttc actgtgcacc ttgttggaac catcacacta caagtattt tatccagact atggcatatg ctgacctttt tgttggggtg agctgcgtgg tcccttctt atcactctc catcacccc tccagtaga ggagtcctg acttgccaga tatttggtt ttgtagtaca gttctgaaga cgcctccat ggcttctctg gcctgtatca gcatgtag atacattgct attactaac tttaacct taatactctg gttacacct ggagactacg cctgtgtatt ttctgattt ggctatact gacctggtc ttctgacct ccttttcca ctggggcaaa cctggatata atggagatgt gttcagtg tgtggcggagt cctggcacac cgaactctac ttacacctgt tcatcgtgat gatgttat gccccagcag ccttattgt ctgcttcacc tatttcaaca tctccgcat ctgccaacag cacacaaagg atatcagcga aaggcaagcc cgtctcagca gccagatgg ggagactggg gaagtgcagg cctgtcctga taagcgctat gccatggct tgttcgaat cactagtga ttttacatcc tctggttgc atatatcct cacttctgt tggaaagctc cactggccac agcaaccgt tgcactcct ctgaccacc tggcttgcta ttagtaacag ttcttgcaac tgtgtaattt atagtctct caacagtga ttccaaagag gactaaagc cctctcagg gctatgtga cttcttggc aagtcagact acagccaacg accttacac agttagaagc aaaggccctc ttaatggatg tcatatctga	Homo sapiens
261	3858	G Protein- Coupled Receptor GPR21	NP_005285.1	MNSTLDGNQS SHPCLLAFG YLETVNFCLL EVLIIIVLTV LIISGNIIVI FVFHCAPLLN P HHTSYFIQT MAYADLFVGV SCVPSLSLL HHPLPVEESL TCQIFGFWS VLKSVSMASL ACISIDRYIA ITKPLTYNTL VTPWRLRLCI FLIWLSTLV FLPSFFHWGK PGYHGDVFW CAESWHTDSY FTLFIVMMLY APAALIVCFY YFNIFRICQQ HTKDISERQA RFSQSGETG EVQACPDKRY AMVLFRITSV FYILWLPYII YFLESSTGH SNRFASFLT WLAISSNFCN CVIYSLNSV FQRLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI	Homo sapiens
262	3859	G Protein- Coupled Receptor GPR22	NM_005295	atgtgtttt cctccattct ggaatcaac atgcagtctg aatcaacat tacagtgcga A gatgacattg atgacatcaa caccaatag tacaacacc tatcatatcc gtaagcttt caagtgtctc tcaccgatt tcttatgta gaaattgtgt tgggacttgg cagcaacctc actgtattgg tacttactg catgaaatcc aacttaata cactgtcag taacattat acaatgaatc ttcattact tgaatgaata atttgtgtg gatgtattcc tctaactata gttatccttc tgccttcaat ggagagtaac actgctctca ttgtgtgtt ccatgaggct tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgtatcac ttggacaga tatgacatct ctgtaaaacc tgcaaaccca attctgacaa tgggcagagc tgtaattgta atgatatacca ttgggatttt ttctttttt tcttctctga ttcttttat tgaggtaaat	Homo sapiens

263	3859	G Protein- Coupled Receptor GPR22	NP_005286.1	<p>tttttcagtc ttcaaaagtgg aaatacctgg gaaaacaaaga cacttttatg tgtcagttaca aatgaatact acactgaact gggaatgtat tatcacctgt tagtacagat cccaatattc tttttcactg ttgtagtaaat gttaatcaca tacaccaaaa tacttcaggc tcttaatatc cgaataggca caagattttc aacaggggcag aagaagaaag caagaaagaa aaagacaatt tctctaacca caaacatga ggctacagac atgtcacaaa gcagtggtgg gagaaatgta gtcttttggtg taagaacttc agtttctgta ataattgcc cccggcgagc tgtgaaacga caccgtgaac gacgagaaag acaaaagaga gtcttcaggg tgtctttatt gattatttct acatttcttc tctgtggac accaatctct gtttaataa ccaccatttt atgtttaggc ccaagtgacc ttttagtaaa attaagattg tgttttttag tcatggctta tggaaacaact atatttcacc ctctattata tgcattcact agacaaaaat ttcaaaagggt cttgaaaaagt aaaaatgaaa agcgagttgt ttctatagta gaagctgac ccctgcctaa taatgctgta atacacaaact ctggataga tcccaaaaga acaaaaaaa ttacctttga agatagtga ataagagaaa aacgttttagt gcctcaggtt gtcacagagt ag</p>	Homo sapiens
264	3860	G Protein- Coupled Receptor SLC/MCH1	NM_005297	<p>atgttgtgtc ctccaagac agatggctca gggcactctg gtaggattca ccaggaaaact A catggagaag ggaagaggga caagattagc aacagtgaag ggaggagaa tgggtggaga ggattccaga tgaacggtgg gtcgctggag gctgagcatg ccagcaggat gtcagttctc agagcaaaag ccatgtcaaa cagccaaagc ttgctccttc tgtccccagg atcacctcct cgacgggga gcatctccta catcaacatc atcatgcctt cgggtgttcgg caccatctgc ctcctgggca tcatcgggaa ctccacggtc atcttcgagg tctgtaagaa gtccaagctg cactgggtga acaacgtccc cgaatcttc atcatcaacc tctcggtagt agatctcctc ttctcctgg gcatgccctt catgatccac cagctcatgg gcaatggggt gtggcacttt ggggagacca tgtgcacct catcacggcc atggatgcca atagtcagtt caccagcacc tacatcctga ccgcatggc cattgaccgc tacctggcca ctgtccacc catctcttc acgaagtcc ggaagccctc tgtggccacc ctggtgatct gctcctgtg ggcctctctc ttcatcagca tcaacctgt gtggctgtat gccagactca tcccctccc aggaggtgca gtgggctgcg gcaacgctt gcccaaccca gacactgacc tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt ggtgtcatca cagccgcata cgtgaggatc ctgcagcga tgaagtcctc agtggccccc gctccacag cagcatccg gctgaggaca aagagggtga ccgacacag catggccatc tgtctggtct tctttgtgtg ctggggcacc tactatgtgc tacagctgac ccagttgttc atcagccgc ccacctcac ctttgtctac ttatacaatg cggccatcag ctggggtctat gccaacagct gctcaaccc ctttgtgtac atogtgcctc gtgagacgtt ccgcaaacgc ttgggtcctgt aggtgaagcc tgcagccag ggcagccttc gcgctgtcag caagctcag acggctgacg aggagaggac agaaagcaaa</p>	Homo sapiens

265	3860	G Protein- Coupled Receptor SLC/MCH1	NP_005288.1	ggcacctga MLCPSKTDGS GHSGRIHOET HGEGRDKIS NSEGRENGR GFQNGGSLE AEHASMSVL P RAKPMNSQR LLLSPGSP RTGSISYNI IMPSVFGTIC LLGIIGNSTV IFAVVKSKL HWCNNVPDIF IINLSVVDLL FLGMPEMIH QLMNGVWHF GETMCTLITA MDANSQFTST YILTAMAJDR YLATVHPFSS TKFRKPSVAT LVICLLWALS FISTPVMWLY ARLIPFPGA VGCGRLEPNP DTDLYWFTLY QFFLAELPF VVITAAVYRI LQRTSSVAP ASQSRILRT KRVTRTAIAI CLVFFVCWAP YVVLQTLQLS ISRPTLTFVY LYNAAISLGY ANSCLNPFVY IVLCETFRKR LVLSVKPAAQ GQLRAVSNAQ TADEERTESK GT	Homo sapiens
266	3861	G Protein- Coupled Receptor GPR25	NM_005298	atggcccccag gagcccccag cgggggtcag cgccctggga ctactcgggg A ttggacggcc tggaggagct ggagctgtgt ccggccgggg acctgccta cggctacgtc tacatccccg cgtctacct ggccgcttc ccggtgggcc tgcctgggcaa cgcctttgtg gtgtggctgc tggccgggag cgggggccc cggcggtgtg tggatacctt cgtgctgcac ctggcgccag ctgacctggg cttcgtgtc acgtgcgcg tgtggccgc ggcggcggt aggcgccgt ggccgttcgg cgatggctc tgcaagctca gcacgttcgc gctggcggc acgcgctcgg cggcgccgct gctgctggc gccactggc acccgcgct gcgcgtggc ctgctgtgc gtgaagctgc tggaggcag gccactggc gccactggc acccgcgct gcgcgtggc ctgctgtgc ggcgctcgg ccgtggcgt gctggccgc cagccagtgc ggcaggagc cctccacgc cttccaggc ccccgctg ggggccagga cagccagtgc ggcaggagc cctccacgc cttccaggc ctcagctgc tctgctgct gctgacctc gctgacacg ccgctggcc tggctgtcac cctcttgc tactgccga tctcgcgcg cctgcgacg ccgcccggc tgggtcggc ccgagggaac tcgctgcga tcatcttgc catcgagc acgtttgtg gctcctggc gcccttcagc gccctgcgg ccgtcttcca cctggcgcg cctggggcgc tgcgcgtgc gtgccccg ctgctggcc tgcgtgggg cctcaccatt gccacctgc tggccttcgt caacagctgc gccaacccg tcatctacct cctgctggc cgtctattcc gagcccgcc gctggacggg gcctgcggc gcaccggcc cctggcgcg aggatcagc cagcctctc gctctccag gacgacagt ccgtgttccg ttgcccggc caggccgga acactgcctc ggctcctg tag	Homo sapiens
267	3861	G Protein- Coupled Receptor GPR25	NP_005289.1	MAPEWSPS PGSAPWDYSG LDGLFELELC PAGDLPYGV YIPALYAAF AVGLLGNFV P VWLLAGRRGP RRLVDTFVLH LAAADLGFVL TLPLWAAAA RRPWFFGDGL CKLSTFALAG TRSAGALLA GMSVDRLAV VKLEARPLR TPRCAVASCC GWAVALLAG LPSIVYRGLQ PLFGGQDSQC GEEPSHAFQ LSLLLLLTF VPLVVTLFC YCRISRLRR PHVGRARRN SLRIFAIES TFVGSWLPFS ALRAVFLAR LGALPLPCPL LLALRWGLTI ATCLAFVNSC ANPLTYLLD RSFRALDG ACGRTRLAR RISSASSLR DSSVFCRA QAANTASAW atgatgtgg gtcaggcag cctctggcc tggctctcag cggctcagg caactgaaat A gtaagcagc tggcccagc agggggccc acaggtccag cgcaccact gccctcgct aagcctgg atgtgtgtc ctgcatctca ggcacctgg tgcctgcga gaatgcgcta gtgtggcca tcatcgtgg cactcctgc ttcctgccc caatgttct gctggtggc agcctggcc tggcagacct gctggcagg cttggccctg tctgcactt tgcctgtgc ttctgcatc gctcagcga gatgacctg gtgctggtg gctgctggc aatggcctt accgccagca tggcagctc actggccatc actgtcagc gctaccttc tctgtacaat	Homo sapiens
268	3862	G Protein- Coupled Receptor GPR3	NM_005281		Homo sapiens

269	3862	G Protein- Coupled Receptor GPR3	NP_005272.1	gacctacact actattcaga gacaacagtg acacggacct atgtgatgct ggccttagtg tggggaggtg ccttggtcct ggggtgctg cctgtgctg cctggaactg cctggatggc ctgaccacat gtggcggtgt ttatccactc tccaagaacc atctggtagt tctggccatt gccttcttca tgggtgtttg catcatgtg cagctctacg cccaaatctg ccgcatcgtc tgccggcatg ccagcagatg tgccttcag cggcacctgc tgcctgctc cactatgtg gccacccgca agggcattgc cacactggc gtgggtgctg ggcctttg cgctgctgg ttgcccttca ctgtctactg cctgctgggt gatgccact ctccacctct ctacacctat cttaccttgc tccctgccac ctacaactcc atgataaacc ctatcatcta cgccttccgc aacaggatg tgcagaaagt gctgtgggt gctgtgctg gctgttctc ttccaagatc cccttccgat cccgtctccc cagtgatgc tag	Homo sapiens
270	3863	G Protein- Coupled Receptor GPR31	NM_005299	MMWGAGSPLA WLSAGSGNVN VSSVGPREGP TGPAPLPSP KAWDVVLCIS GTLVSCENAL P VVAIIIVGTPA FRAPMFLIVG SLAVADLLAG LGILVHFAAV FCIGSAEMSL VLVGVLAMAF TASIGSLLAI TVDRYLSLYN ALTYISETTV TRTYVMLALV WGGALGIGLL PVLAWNCLDG LTTCGWVYPL SKNHLWLAI AFFMVFIML QLYAQICRIV CRHAQIQIALQ RHLLPASHYV ATRKGIATLA VVLGAFAACW LPFTVYCLLG DAHSPPLYTY LTLLPATYNS MINPIIYAFR NQDVQKVLWA VCCCSSSKI PFRSRSPSDV atgccattcc caaactgctc agccccagc actgtggtg ccacagctgt ggggtgtctt A ctgggggctgg agtgtgggt ggtgtgctg ggcaacgcg tggcgctgtg gaccttctg ttccgggtca ggggtggaa gccgtacgt gctacactgc tcaacctggc cctggctgac ctgctgttg cgtgctgct gccttctct cccgcttct cctgagcct ccaggcttgg catctgggc gtgtgggtg cctgggccc gcttctctc tggacctcag ccgcagcgtg gggatggct tectggcgc cgtggcttg gaccggtacc tccgtgtgtt ccaacctcgg cttaaggtca acctgtgtc tctcaggcg gccctgggg tctcgggct cgtctggctc ctgatggctg cctcacctg cccgggctg ctcactctg agccgcccga gaactccacc agtgccaca gtttctact cagggcagac ggtctcttca gcatcatctg gcaggaaagca ctctctgccc ttcagttgt cctccccctt ggcctcactg tgttctgcaa tgcaggcatc atcagggtc tccagaaaag actccgggag cctgagaaac agcccaagct tcagcgggccc caggcactgg tcaacttgt ggtggtgctg ttgtctctg gcttctgccc ctgcttctg gccagagtcc tgatgcacat cttccagaat ctggggagct gcagggccct ttgtgcagtg gtctatacct cggatgtcac gggcagctc acctacctg acagtgtct caaccccg gtatactgt tctccagccc cacttcagg agctccatc ggagggtctt ccacacctc cgaggccaag ggcaggcagc agagccccca gatttcaacc ccagagactc ctattcctga LLLAACLPLF AAFVLSLQAW HLGRVGCWAL RELLDLSRSV GMAFLAAVAL DRYLRVWHPR LKNVLLSPQA ALGVSGLVWL LMVALTCPGL LISEAAQNST RCHSFYSRAD GSFIIWQEA LSCIQFVLPF GLIVFCNAGI IRALQKRLRE PERQPKLQRA QALVTLLVVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVNPV VYCFSSPTFR SSYRRVFFHTL RGKQAAEPP DFNPRDSYS	Homo sapiens
271	3863	G Protein- Coupled Receptor GPR31	NP_005290.1	MPFNCASAPS TVATAVGVL LGLECGLLG LGLVAVLWTEL FRVRWKPYA VYLLNLALAD P LLKVNLLSPQA ALGVSGLVWL LMVALTCPGL LISEAAQNST RCHSFYSRAD GSFIIWQEA LSCIQFVLPF GLIVFCNAGI IRALQKRLRE PERQPKLQRA QALVTLLVVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVNPV VYCFSSPTFR SSYRRVFFHTL RGKQAAEPP DFNPRDSYS	Homo sapiens
272	3864	G Protein- Coupled Receptor	NM_005282	ctgttgacct tactatctc tgttgcttcc tggggtccta ggaatgcca gcactccac A ccacattgcc tgaactttcc aacactccct agctgcgctg tgcctatct caacacttcc tcatgtattt cttgtgtctt ctagaacatt cccccccat tattacttca atatggctac	Homo sapiens

GPR4

acatacttc taattgcctt gaaaccatc tccttctcâc cattgcccag cgatgcttcc
 gtctctcca taaacttc cggagaccaa tttttgtgc accccatâc tccctcgttg
 acacactgac tccatacata acctccttga aaacctctt tattaatctc accatcctcc
 agacttccct cctgtcataa ttccatccct cctcctcctc ttccctctca agctctgccc
 ttccagccc agcccagctt accaaacctc atctcttccc tgtagaccac atcccacat
 gttcccttga gcttccaaag aagggtctca gggggcccca tggcctcccg ctccctgtgg
 cccacagcc cccgtggcc aggggaagcg cccagaaagc cgaagtccc accatgggca
 accacacgtg ggagggtgc cactgtgact cgcgctgga ccactcttt ccgcatccc
 tctacatctt tgtcatcggc gtggggctgc ccaccaactg cctggctctg tggcggct
 accgccaggt gcaacagcc aacgagctgg gcgtctacct gatgaacctc agcatcgccg
 acctgctgta catctgcacg ctgccgctgt ggggtgacta ctctctgac cagacaact
 ggatccacgg ccccggtcc tgcagctct tgggttctat ctctacacc aatatctaca
 tcagcatcgc ctctctgtgc tgcactctgg tggaccgcta cctggctgtg gcccacccac
 tccgcttcgc ccgctgcgc cgcgtcaaga ccgctgtggc cgtgagctcc gtggtctggg
 ccacggagct gggcgccaac tggcgcccc tgttccatga cgaactcttc cgagacogct
 acaaccacac ctctctcttt gagaagtctc ccatggaaag ctgggtggcc tggatgaacc
 tctatcgggt gttcgtgggc ttctcttcc cgtggcgct catgctgctg tcgtaccggg
 gcatcctgcg ggcctgcgg ggcagctgt caccggagc ccaggagaag gccaaagatca
 agcggtcggc cctcagctc atcgccatcg tcttgctctg ctttgccccc tatcagctgc
 tcttgctgtc ccgacgcgc atctacctgg gccgccccg ggaactgcgc ttcgaggagc
 ggtctcttcc tgcataccac agctcactgg ctttcaccag cctcaactgt gtggcggaac
 ccatcctcta ctgcttgctc aacgagggcg ccgcagcga tgtggccaaag gccctgcaca
 acctgctccg ctctctggcc agcgacaagc cccaggagat ggccaatgcc tcgctcacc
 tggagacccc actcacctcc aagaggaaac gcacagccaa agccatgact ggcagctggg
 cggccactcc gccctcccag ggggaccagg tgcagctgaa gatgctgcg ccagcacaat
 gaaccccag tggcacagaa tcccagttt tcccctctca tcccacagtc ccttctctcc
 tggctctggt tatgcaaat gtatgaaaa agggctgtgt taatatctat aagaatacaa
 gaacttaga agagttaggt tgggtgttca ctggtcaacc tttgtgctcc cagatcccat
 cacagtctgg cgattgtgga gggcctcctg aaggaggaga tgagtaata tatttttttg
 gacacaggt ctactgtgt tgcacaggt ggaagtgcag agtgacgtcg tggctcactg
 cagctccac ctctgggt ctccagcgat ctcccacat cagcctccc agtagctggg
 accacaaatg tgagcccac catgctggc taatttttgt actttttgta taaatggagt
 ctactatgt ttcccaggc tgatcttgaa ctctgggt caagagatcc tctgcccctg
 gccctccaaa gtgctcagat tagagatgtg agcgcctatg tctggccaga taaatgaagt
 caaacatttg gttccagaa aataagaca aatagagaag gtagatttt ttttttcca
 acaagtggat aaaagtctgt gactcggggg aagtggaag gagaaatgca gccgatatag
 agtcattatg ttgcaaacg cctgtgtcat acagggccagg gaacataaga ccgcaattct
 aagtttctag ataaacagcg atctccaaat caagactgag gatgaagagg gagaatgtca
 gaactcaagt gaagggaat cagggcagac tgcctggagg agtgatgcca gaagggttgg
 gaagaaggtg tgggacaaga agaaagggtâ ttatctcatt cattcaacag aggtttatgt
 aggcactgt gctgggtggg gctgggggaca caacaatgac tgaggcagcc tggccttgcc

273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacaggc tcaccataca caagtaataata aaaaatatgt aatgtttgga attgct MGNHTWEGCH VDSRDVHLFP PSLYIFVIGV GLPTNCLALW AAYRQVQQRN ELGVYLMNLS P IADLLYICTL PLWVDYFLHH DNWIHGPSC KLFGEFFITN IYISIAFLCC ISVDRYLAVA HPLRFARLRR VKTAVAVSSV VWATELGANS APLEHDELFR DRYNHTFCFE KFPMEGWVAV MNLRYFVGF LFPWALMLS YRGILRAVRG SVSTERQEK A KIKRLALSLL AIIVLCFAPY HVLLLSRSAL YLGRPWDCGF EERVFSAYHS SLAFTSLNCV ADPILYCLVN EGARSDVAKA LHNLRLFLAS DKPQEMANAS LTLETPLTSK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tcccaggtgg tggtagtggc ggccgaagga A gcgcgcgcgc gcgcacacgc agcagggggc ccggacacgc gcgaatgggc accccctgct gcgcgcgcgc taggagccgc ccggcgagct aatgggtctc tggagctgtc ctgcgagctg tcggctgggc caccgggact cctgtgcca gcggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgatgc tggagaaaac gcgctgtgg tggcgctcat cgcgtccact ccggcgctgc gcacgcccac gtctgtgctg ttaggcagcc tggccaccgc tgacctgtg gcgggctgtg gcctcatctt gcactttgtg ttccagtact tggcgccctc ggagactgtg agtctgctca cgggtggcctt cctcgtggcc tccctgcgc cctctgtcag cagcctgctg gccattacgg tggaccgcta cctgtccctg tataacgcgc tcacctatta ctgcgcgcgc acctgttg gcgtgcaact cctgcttgc ccacttggga ccgtgtccct aggcctgggc ctgctgcccgc tgcgtggctg gaactgcctg gcagagcgc ccgcctgcag cgtggtgcgc ccgctgggc gcagccacgt ggctctgctc tccgcgcct tcttcattggt cttcggcatc atgctgcacc tgtacgtgc catctgccag gtggtctggc gccacgcgca ccagatcgcg ctgcagcagc actgcctggc gccaccccat ctgcgtgcca ccagaaaagg tgtgggtaca ctggctgtgg tgcctgggac ttctggcgcc agctggctgc ccttcgccat ctattgcgtg gtgggcagcc atgaggaccc ggcggtctac acttacgcca cctgtctgcc cgcacacctc aactccatga tcaatcccat catctatgcc ttccgcaacc aggagatcca gcgcgcctg tggctcctgc tctgtggctg ttccagctcc aaagtgcctt ttcgttccag gtctccacgc gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	MN5AASLND SOVVVAAEG AAAAATAAGG PDTGEMGPPA AAALGAGGGA NGSLELSSQL P SAGPPGLLLP AVNPWDVLLC VSGTVIAGEN ALVVALLAST PALRTPMFVL VGSLATADLL AGCGLIHV FQYLVPSSTV SLLTVGFIVA SFAASVSSL ATVDRYLSL YNALTYYSRR TLIGVHLLA ATWTVSLGLG LLPVLGNCL AERAACSVR PLARSHVALL SAAFFMVFGI MLHYVRICQ VWRHAHQIA LQHCCLAPPH LAATRKGVGT LAVLGTFGA SWLPFAIYCV VGSHEDPAY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaacg cctcgttctc ggagccctgg ccgcaccaacg catcgggccc ggaccggcg A ctgagctgct ccaacgcgc gactctggcg ccgctgcccgc cgcgctggc ggtggctgta ccagttgtct acgcggtgat ctgcgcctgt ggtctggcg gcaactccgc cgtgctgtac gtgtgtctgc ggggccccgc catgaagacc gtcaccaacc tgttcattct caacctggcc atcgcgcagc agctcttcac gctggtgctg cccatcaaca tgcgcgactt cctgctgcg cagtgggccct tcggggagct catgtgcaag ctatcgctgg ctatcgacca gtacaacacc	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	<p>ctgataaactt ggcgcgcgc agcctga</p> <p>MDNASFSEP PANASGPDPA LSCSNASTLA PLPAPLAVAV PVYAVICAV GLAGNSAVLY P</p> <p>VLLRAPRMKT VTNLFILNLA IADELFTLVL PINIADFLR QWPFEGELMCK LIIVAIQYNT</p> <p>FSSLYFLTM SADRYLVWLA TAESRRVAGR TYSAARAVSL AVWGIVTLV LPEAVFARLD</p> <p>DEQRRQCQL VFPQPEAFW RASRLYTLVL GPAIPVSTIC VLYTTLLCRL HAMRLDSHAK</p> <p>ALERAKKRV FLVVAILAVC LLCWTPYHLS TVVALTTDL PQTPLVIAISY FITSLTYANS</p> <p>CINPFLYAFI DASFRNLRQ LITCRAAA</p>	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286	<p>atgcagcccg ctgggcaccc agagccctt gacagcagg gctccttctc cctcccaag A</p> <p>atgggtgcc aagctctctca ggacaatggc actggccaca atgccacctt cctcagagcca</p> <p>ctgcccgttc tctatgtct cctggccgcc gtgtactcgc ggatctgtgc tctggggctg</p> <p>actggcaaca cggcgtcat cctgttaac ctaaggcgc ccaagatgaa gacggtgacc</p> <p>aacgtgtca tectgaacct ggcgtgcgc gacgggctct tcaagctggt actgcccgc</p> <p>aacatgcgg agcacctgct gcagtactgg ccttcgggg agctgctctg caagctggg</p> <p>ctggccgtcg accactaaa catcttctcc agcatctact tctagccgt gatgagcgtg</p> <p>gaccgatacc tgggtggtgct ggccaccgtg aggtcccgc acatgccctg ggcacacctac</p> <p>cggggggcga aggtcgccag cctgtgtgtc tggctggcg tcaaggctct ggtctgccc</p> <p>ttctctctt tgcgtggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc</p> <p>ttcccgctgg ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc</p> <p>tctgtctgc cegtgtgcac catctgtgtg ctctacacag acctcctcg caggctgcgg</p> <p>gccgtgcggc tccgctctgg agcaaggct ctaggcaagg ccaggcggaa ggtgaccgtc</p> <p>ctggtcctcg tegtgtggc cgtgtgctc cctgtgtgga cgccttcca cctggcctct</p> <p>gtcgtggccc tgaccacgga cctgcccag acccactgg tcatcagat gtctacgtc</p> <p>atcacagcc tcaagtacgc caactcgtgc ctgaacccct tctctacgc ctttctagat</p> <p>gacaacttc ggaagaactt ccgagcata ttgcggtgct ga</p> <p>MQAAGHPEPL DSRGSFSLPT MGNVSDNG TGHNTFSEP LPFLYVLLPA VYSGICAVGL P</p> <p>TGNTAVILVI LRAPKMTVT NVFILNLA DGLFTLVLP NIAEHLQYW PFGEELCKLV</p> <p>LAVDHYNIFS SIYFLAVMSV DRYLVVLATV RSRHPWRTY RGAIVASLCV WLGVTVLVLP</p> <p>FFSFAGVYSN ELQVPSGLS FPWPERVWFK ASRVYTVLIG FVLVCTICV LYTDLLRRLR</p> <p>AVRLRSKAKA LGKARRKVT LVLVVLAVCL LCWTFHLAS VVALTTDL PQTPLVIAISY</p> <p>ITSITYANSC LNPFLYAFID DNFKNFRSI LRC</p>	Homo sapiens
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1	<p>gacaacttc ggaagaactt ccgagcata ttgcggtgct ga</p> <p>MQAAGHPEPL DSRGSFSLPT MGNVSDNG TGHNTFSEP LPFLYVLLPA VYSGICAVGL P</p> <p>TGNTAVILVI LRAPKMTVT NVFILNLA DGLFTLVLP NIAEHLQYW PFGEELCKLV</p> <p>LAVDHYNIFS SIYFLAVMSV DRYLVVLATV RSRHPWRTY RGAIVASLCV WLGVTVLVLP</p> <p>FFSFAGVYSN ELQVPSGLS FPWPERVWFK ASRVYTVLIG FVLVCTICV LYTDLLRRLR</p> <p>AVRLRSKAKA LGKARRKVT LVLVVLAVCL LCWTFHLAS VVALTTDL PQTPLVIAISY</p> <p>ITSITYANSC LNPFLYAFID DNFKNFRSI LRC</p>	Homo sapiens

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccacttgg ctggagcatt cactaggcga ggcgctccat cggactcaact agccgcactc A atgaatcggc accatctgca ggcactctt ctggaatatg acaagaagaa ctgctgtgtg ttccgagatg acttcatgca caaggtgttg ccgcccgtgtg tgggctgga gtttatcttt gggcttctgg gcaatggcct tgcctgtgg atttctgtt tccacctcaa gtccctgaaa tccagccgga ttttctgtt caacctggca gtactgact ttctactgat catctgcttg ccgttcgtga tggactacta tgtgcggcgt tcagactgga actttgggga catcccttgc cggtcggtgc tcttcatgtt tgccatgaac cgccaggga gcatcatctt cctcacggtg gtggcggtag acaggtattt ccgggtgttc catccccc catccctgaa caagatctcc aatggacag cagccatcat ctcttgcctt ctgtgggga tcaactgttg cctaacagtc cacctcctga agaagaagt gctgatccag aatggccctg caaatgtgtg catcagcttc agcatctgcc ataccttcg gtggcacgaa gctatgttcc tccctggagt cctcctgccc ctgggcatca tccgttctg ctccagccga attatctgga gctgcggca gagacaaatg gaccggcatg ccaagatcaa gagagccatc accttcatca tgggtgtggc catcgtcttt gtcatctgct tccctccag cgtggtgtg cggatccgca tcttctggct cctgcacact tcgggcacgc agaattgtga agtgaccgc tcggtggacc tggcgttctt tatcactctc agcttcacct acatgaacag catgctggac cccgtgtgt actacttctc cagcccatcc tttcccaact tcttctccac ttgatcaac cgctgcctcc agaggaagat gacaggtgag ccagataata accgcagcac ggcgtcgtg ctccacaggg accccaaca aaccagaggc gtccagagg cgttaatggc caactccgtt gaccatcga gccctcttta tctgggccc acctcaata accttccaa gaaggacat tgtcaccaag aaccagcatc tctggagaaa cagttggct gtgcatcga gtaatgtcac tggactcggc ctaagggttc ctggaacttc cagattcaga gaatctgatt taggaaact gtggcagatg agtgggagac tgggtgcaag gtgtgaccac aggaatcctg gaggaacaga gactaaagct tctaggcatc tgaacttgc ttcatctctg acgctgcag gactgaagat gggcaaatg tagcggttc gctgagcag agttggagcc agagatctac ttgtgacttg ttggccttct tcccacatct gccacagact ggggggggtc cagctcctcg ggtgatatct agcctgcttg tgagctctag cagggataag gagagctgag attggaggga attgtgttgc tccctggagg agcccaggca tcattaaaca agccagtagg tcaactggct tccgtggacc aattcatctt tcagacaagc tttagagaaa tggactcagg gaagagactc acatgcttgg gttagtatct gtgttccgg tgggtgtaat aggggattag cccagaaagg gactgagcta aacagtgtta ttatgggaaa ggaatggca ttgctgcttt caaccagca ctaatgcaat ccattcctct cttgtttata gtaacttaag ggttgagcag ttaaaacggc ttcaggatag aaagctgtt cccacctgtt tegtttacc attaaaaagg aaactgcct ctgccccacg ggtagagggg gtgcacgttc ctctgggtc cttcgcttgt gtttctgtac ttacccaaaa tctaccactt caataaat ttagaggaga caaaaaaa a	Homo sapiens
281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	MNRHLQDHF LEIDKNCVV FRDDFIKVL PPVLGLEFIF GLLNGLALW IFCFLKSWK P SSRIEFLNLA VADFLIIICL PFVMDYYVRR SDWNFGDIPC RLVLFEAMN RQGSIIFLT VAVDYFRVW RPHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANVCISE SICHTFRWE AMFLEFLLP LGIILFCSAR IWSLRQRM DRHAKIKRAI TFIMVVAIVE VICFLPSVV RIRIFWLLHT SGTQNCSEYR SVDLAFFITL SFTYMSMLD PVVYFSSPS FPNFFSTLIN RCLQRKMTGE PDNNRSTSV E L TGDPNPKTRG APEALMANS EPWSPSYLGP	Homo sapiens

282	3870	G Protein- Coupled Receptor OGR1	NM_003485	TSNNHKKGH CHQEPASLEK QLGCCIE.	atggggaaac tcactgcaga caactctctg atgagctgtgta ccatcgacca taccatccac cagacgtgg ccccggtgtg ctatgttacc gtgctgtgtg tgggcttccc ggccaactgc ctgtccctct acttcggcta cctgcagatc aaggccgga cgtgactgg cgtgtacctg tgcaacctga cgggtggccga cctctttctac atctgtctgc tggccttctg gctgcagtac gtgtgcagc acgacaactg gtctcacggc gacctgtctt gccaggtgtg cggcatcttc ctgtacgaga acatctacat cagcgtgggc ttctctgtct gcatctcgtt ggaccgtctac ctggctgtgg cccatccctt ccgcttccac cagttccgga cctgaaaggc ggccgtcggc gtcagcgtgg tcatctgggc caaggagctg ctgaccagca tctacttctt gatgcacgag gaggtcatcg aggacgagaa ccagcacgcg gtgtgctttg agcactaccc catccaggca tggcagcgcg ccatacaacta ctaccgcttc ctgggtgggt tctcttccc catctgctg ctgtggcgt cctaccaggg catctcgccg gccgtgcgc ggagccacgg caccagaag agccgcaagg accagatcca gcggtgtgtg ctacgacgtt tggatctctt cctggcctgc ttctggcctt accacgtgtt gctgctgtgt cgcagcctt gggaggccag ctgcgacttc gccaaaggcg ttttcaacgc ctaccacttc tccctcctgc tcaccagctt caactgcgtc gccgaccccg tgctctactg cttcgtcagc gagaccaccc accgggacct ggcccgctc cgcggggcct gcctggcctt cctcacctgc tccaggaccg gccggggccag ggaggcctac ccgctgggtg cccccaggc ctccgggaaa agcggggccc aggtgagga gcccgagctg ttgaccaagc tccaccggc cttccagacc cctaactgc cagggtcggg cgggttcccc acgggcaggt tggcctag	Homo sapiens
283	3870	G Protein- Coupled Receptor OGR1	NP_003476.1	MGNITADNSS MSCTIDHTH QTLAPVYVT VLWGFPAAC LSIFYGLQI KARNELGVYL P GNLTVADLFY ICSLPFWLQY VLIQDNWSHG DLSCQVCGL LYENIYISVG FLCCISVDRY LAVAHPRFH QFRTLKAAG VSVIWAKEI LTIYIFLME EVIEDENQHR VCFEHIPIQA WQRAINYYRF LVGFLFPICL LLASYQGILR AVRRSHGTQK SRKDQIQRLV LSTWIFLAC FLPYHVLILV RSWEASCDF AKGVFNAYHF SLLTSFNCV ADFVLYCFVS ETHRDLARL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA	Homo sapiens	
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtgc ggggctcgtt ggggcccggc accagcacc tgatgttctg ggcgggtgtg gtgggcaacg ggtggccctt gggcatcctg agcgacggc gaccggcgcg cccctcggcc ttccggtgtg tgggtcacgg actggcgcc accgacctgc tgggacaccg cttcctgagc ccggccgtgt tctgggcta tgcgcgcaac agctccctgc tgggctcgtg ccgaggcggc cccgccctt gcatgacctt cgccttcgcc atgaccttct tgggcttggc gtccatgctc atctctttt ccatggcctt ggagcgctgc ctggcgctga gccaccctta cctctacgcg cagctggacg ggccccgctg cggccgctg ggcgtgccag ccatctacgc cttctcgctc cttctcgtgc cgtctgcccc gctggggcctg ggccaacacc agcagtactg ccccggcagc tgggtcttcc tccgcatgcg ctggggccag ccggggcggc cgccttctc gctggcctac gccggccttg tggccctgct ggtggctgcc atcttctctt gcaacggctc ggtcacccctc agcctcgtgc gcatgtaccg ccagcagaag cgccaccagg gctctctggg tccacggcg cgcaccggag aggacaggtt ggaccacctg	Homo sapiens	

285	3921	Prostacyclin NP_000951.1 Receptor	atcctgtggt cccatcatgac agtggtcatg gccgtgtgct cccgtcctct cagatccgc tgcttcccc aggtgtgctg cctgacagc agcagtga tggggaccc cctgtccttc cgcttctacg ccttcaacc cctcctgac cctgggtct tcatcctttt cgcgaaggct gtcttccagc gactcaagct ctgggtctgc tgcctgtgcc tggggcctgc ccaaggagac tcgcagacac ccttttccca gctgcctcc gggagagggg acccaagggc cccctctgct cctgtgggaa aggaggggag ctgcgtcct ttgtcggctt gggcgcaggg gacgtggag cccttgcttc ccacacagca gtccagcggc agcgcctgg gacgtcgtc caaagcagaa gccagcgtg cctgtcctct ctgctgacat ttcaagctga cctgtgac tctgcccgt cttcggggga caggagccag aaaaacagg acatggctga tggctggga tctggaacc ttggccccca aactctggg ccgacagct gctgttctc ctgcggcagg gcagtcgctg ctggctctgg gaagagagt agggacagag gaaacgttta tctggagtg cagaaagat ggttctctca aataaacag tggcctggcc gacctgctc ggcctggat tccccatca tctcattgtc taaatattta gaaggcggag agttccag agcttctgt acagtcagg ctgctctggt ctgggtgctg gctccaatct gcgtccact aggagggcca actgccacc ccaagtccc aggggatgg cctccccctc taccagcca ctccaagc cagccccct tctgtctcac aaaaaccaca gttattggaa agctcctctg ccttcccttg ccgtggtcc cccaccaggc ttgggagccc tggcatccca agggggcaac gggaggagg ggaggtgct gcatgtggg tgatgacgta ggacatgtc ttggtacaaa agggcctga gacattccac ct	Homo sapiens
286	3923	Prostaglandin D2 Receptor	LLGTSFLSPA VFVAYARNSS TLMEVAGVVG NGIALGILSA RRPAPSAFA VLVTGLAATD P LSHPYLYAQL DGPRCARLAL PAIYAFCVLF CALPLLGLGQ HQQYCPGSMC FLMRWAQPG GAAFLAYAG IVALIVAAIF LCNGSVTLSL CRMYRQQRKH QGSLGPRPT GEDEVHLLIL LALMTVMVAV CSLPLTIRCF TQAVAPDSSS EMGDLLAFRF YAFNPILDPW VFILFRKAVF QRLKLWVCCCL CLGPAHGDSQ TPLSQLASGR RDRAPSAFV GKEGSCVPLS AWGEGQVEPL PPTQSSGSA VGTSSKAEAS VACSLC gctgtgcaac ctggcgcca tgcgcaacct ctatgcgatg caccggcggc tgcagcggca A cccgctcc tgcaccagg actgtgccga gccgcgcgcg gacggaggg aagcgtccc tcagccctg gaggagctg atcactcct gctgctggcg ctgatgaccg tgctcttcac tatgtgtct ctgcccgtaa tttatcgcc tttactatga gatttaagg atgtcaagga gaaaaacagg acctctgaag aagcagaaga cctccgagcc ttgcgatttc tatctgtgat ttcaattgtg gaccctgga tttttatcat ttccagatct ccagtatttc ggataattt tcacaagatt ttcattagac ctcttaggta caggagccgg tgcagcaatt ccactaacat ggaatccagt ctgtgacagt gtttttccat ctgtggtaag ctgaggaaata tgtcacattt tcagtcagaag aacca MKSPFYRCQN TTSVEKNSA VMGGVLFSTG LLGNLLALGL LARSGLGWS RRPLRPLPSV P FYMLVCLTV TDLLGKCLLS PVVLAAYAQN RSLRVLAPAL DNSLCQAF AFMSFFGLSST LQLLAMALEC WLSLGHFFFY RRHITLRIGA LVAPVWSAFS LAFCALPFMG FGKRVQYCPG TWCFFIQMVE EGSLSVLGYS VLYSSLMALL VLATVLCNLG AMRNLYAMHR RLQRHRSCT RDCAEPRADG REASQPLEE LDHLLLLALM TVLFTMCSLP VTYRAYYGF KDVKENRST EEAEDLRALR FLSVISIVDP WIFIFRSPV FRIFHKIFI RPLRYSRCS NSTNMESL	Homo sapiens
287	3923	Prostaglandin D2 Receptor		Homo sapiens

288	3924	Prostaglandin E Receptor EP1	NM_000955	<p>ggggcgccga gggctgagc ggcgtgatg gggaccac atcccaggca gtgcggcac A</p> <p>ccttgccgc tgacatgac ccttgccgc cctcaacct gacgtggcg ggcgagcga</p> <p>ccacatgccc ggcgcctgg gtcccaaca cgtcgccgt ggcgcgtcg ggcgttcgc</p> <p>ccgctgccc catcttctc atgacgtgg gcgcgtgtc caacctgtg gcgtggcgc</p> <p>tgctggcga ggcgcgggc cgcctggac ggcgcgttc ggcaccacc ttcctgctgt</p> <p>tcgtggccag cctgctgcc accgacctgg cgggccaagt gatcccgcc gcgctgtgtc</p> <p>tgctctgta cactggggg cgcgtcccg tgcctggc tgcatgggc gtggagcgt</p> <p>gcctggctt cttcgccctg tgcctccag cgcgcgggt ctcggtccc cgcgcgcgc</p> <p>gcctggcgt cgcgcgggc gcgtggcc tggcgtggc gctgctggc ctggcgccg</p> <p>tgccgctga tgagctgac taccgggca cgtggtgct catcgccgt ggtcccccg</p> <p>gcgctggcg ccaggcact cttgctggc tcttcggcg cctcgccgt gtcgctcc</p> <p>tcgcccgcct ggtgtgaac acgtcagcg gctggccct gcctcgcc cgtggcgac</p> <p>gccgtccc acggcctcc cggcctcag gcccgaac cggcgctgc tggggggcg</p> <p>acggacccc ctcggcctc gctcgccg cctcgctcc cgttcggc tccacctct</p> <p>ttggcgctc tggagagcg gctcgccac gcagagctc gcccacgac gtggagatg</p> <p>tgggccagct tgcggtatc atggtggtg cgtgcactc ctggagcca atgctggtg</p> <p>tggtggcgt ggcctcgcc aaccagatc tggaccttg ggtgtacac ctgttcctg</p> <p>cgtgcgctc tgcctcctg aaccagatc tggaccttg ggtgtacac ctgttcctg</p> <p>agccgtgct gcgcaactg cttcgctct tggcccgag gcccggagc aaggcgcc</p> <p>ccgcggggt gggcctaaca ctagcgctc gggagggcg ctcgctgac agtcccgcc</p> <p>acagcgcc cagccactc taagcaca cagagggcca acgactaag cagccaccc</p> <p>tggcctggc ccaggtgccc ggcgagagc ctttgggaat aaaaagccat tctgcy</p> <p>MSPCGPNLS LAGEATTCAA PWVNTSAVP PSGASPALPI FSMTLGAVSN LLALALLAQ P</p> <p>AGLRRRRSA TFLLFVASL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF</p> <p>GLCPILLGCG MAVERCVGT RPLHARVS VAPARIALAA VAAVALAVAL LPLARVGRYE</p> <p>LQYPTWCFI GLGPPGWRQ ALLAGLFASL GLVALLAALV CNTLSGLALH RARWRRSRR</p> <p>PPASGPDNR RRGAGHPRS ASASSASSIA SASTFFGSR SSGSARRARA HDVEMVQLV</p> <p>GIMVSCICW SPMVLVALA VGGWSSTSLQ RPLFLAVRLA SWNQILDPTV YILLRQAVLR</p> <p>QLRLPPRA GAKGPGAGL LTPSAWEASS LRSSRHSGLS HF</p> <p>gggcccgcgt cgcgcgcgt ggtgcggga ggggctctg gatttcggtc cctcccctt A</p> <p>ttcctctgag tctcggaac ctcagctct cagacctct tctcccag taaaggccg</p> <p>gagaggagg cgcctctct ttcaggcac ccacacctg gcaatggctc caatgactc</p> <p>cagctgagg actcgagac gcagacatgg cttcccccag gcgaagccc agccatcagc</p> <p>tcgctcatgt tctcgcccg ggtgctggg aacctcatg cactggcgt gctggcgcc</p> <p>cgtggcggg gggacgtgg gtgcagccc ggcgcagga gctccctctc cttgttccac</p> <p>gtgctggtga cagagctgt gttaccgac cgtgctggg cctgcctcat cagccagtg</p> <p>gtactggctt cgtacgcgc gaaccagacc cgtgtggcac tggcgcccg gacccgccc</p> <p>tgacactact tgccttctc catgacctc ttcagcctg ccaagatgt catgctctc</p> <p>gccatggccc tggagcgcta cctctgac gtctctgac gtcctctatg cgtctctctc</p> <p>tcggcctccg gggcgctggc cgtgctgctc cagtctccct gctctctctc</p>	Homo sapiens
289	3924	Prostaglandin E Receptor EP1	NP_000946.1	<p>AGLRRRRSA TFLLFVASL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF</p> <p>GLCPILLGCG MAVERCVGT RPLHARVS VAPARIALAA VAAVALAVAL LPLARVGRYE</p> <p>LQYPTWCFI GLGPPGWRQ ALLAGLFASL GLVALLAALV CNTLSGLALH RARWRRSRR</p> <p>PPASGPDNR RRGAGHPRS ASASSASSIA SASTFFGSR SSGSARRARA HDVEMVQLV</p> <p>GIMVSCICW SPMVLVALA VGGWSSTSLQ RPLFLAVRLA SWNQILDPTV YILLRQAVLR</p> <p>QLRLPPRA GAKGPGAGL LTPSAWEASS LRSSRHSGLS HF</p> <p>gggcccgcgt cgcgcgcgt ggtgcggga ggggctctg gatttcggtc cctcccctt A</p> <p>ttcctctgag tctcggaac ctcagctct cagacctct tctcccag taaaggccg</p> <p>gagaggagg cgcctctct ttcaggcac ccacacctg gcaatggctc caatgactc</p> <p>cagctgagg actcgagac gcagacatgg cttcccccag gcgaagccc agccatcagc</p> <p>tcgctcatgt tctcgcccg ggtgctggg aacctcatg cactggcgt gctggcgcc</p> <p>cgtggcggg gggacgtgg gtgcagccc ggcgcagga gctccctctc cttgttccac</p> <p>gtgctggtga cagagctgt gttaccgac cgtgctggg cctgcctcat cagccagtg</p> <p>gtactggctt cgtacgcgc gaaccagacc cgtgtggcac tggcgcccg gacccgccc</p> <p>tgacactact tgccttctc catgacctc ttcagcctg ccaagatgt catgctctc</p> <p>gccatggccc tggagcgcta cctctgac gtctctgac gtcctctatg cgtctctctc</p> <p>tcggcctccg gggcgctggc cgtgctgctc cagtctccct gctctctctc</p>	Homo sapiens
290	3925	Prostaglandin E Receptor EP2	NM_000956	<p>gggcccgcgt cgcgcgcgt ggtgcggga ggggctctg gatttcggtc cctcccctt A</p> <p>ttcctctgag tctcggaac ctcagctct cagacctct tctcccag taaaggccg</p> <p>gagaggagg cgcctctct ttcaggcac ccacacctg gcaatggctc caatgactc</p> <p>cagctgagg actcgagac gcagacatgg cttcccccag gcgaagccc agccatcagc</p> <p>tcgctcatgt tctcgcccg ggtgctggg aacctcatg cactggcgt gctggcgcc</p> <p>cgtggcggg gggacgtgg gtgcagccc ggcgcagga gctccctctc cttgttccac</p> <p>gtgctggtga cagagctgt gttaccgac cgtgctggg cctgcctcat cagccagtg</p> <p>gtactggctt cgtacgcgc gaaccagacc cgtgtggcac tggcgcccg gacccgccc</p> <p>tgacactact tgccttctc catgacctc ttcagcctg ccaagatgt catgctctc</p> <p>gccatggccc tggagcgcta cctctgac gtctctgac gtcctctatg cgtctctctc</p> <p>tcggcctccg gggcgctggc cgtgctgctc cagtctccct gctctctctc</p>	Homo sapiens

291	3925	Prostaglandin E Receptor EP2	NP_000947.1	MGNASNDSQS EDCETROWLP PGESPAISSV MFSAGVLGNL IALALLIARRW RGDVGCASGR P RSLSLFHVL VTELVTDL L GTCLISPVVL ASYARNQTLV ALAPESRACT YFAFAMTFFS LATMLMLEAM ALERYLSIGH PYFYQRRVSA SGGLAVLPVI YAVSLLFCSL PLLDYGQYVQ YCPGTWCFFIR HGRTAYLQLY ATLLLLIIVS VLACNFSVIL NLIRMHRRSR RSRGCPSLGS GRGPGARRR GERVSM AET DHILLIIMT ITFAVCSLPF TIFAYMNETS SRKEKWDIQA LRELSINSII DPWFALIRP PVLRLMRSVL CCRISLRTQD ATQTSCTQS DASKQADL	Homo sapiens
292	3926	Prostaglandin E2 Receptor EP3	L32662	atgagaaaaa gaagactcag agagcaagag gaatttggg gaaattaa A	Homo sapiens
293	3926	Prostaglandin E2 Receptor EP3	NM_000957	accagaggtt tccagagag gaagcgtgg ctccctccc ggccagtgag ccttggcgcc A gccgcggccg cgttcccagc agcgagtag ggcgcggtt gcgccccga ccatgggggg cagccccacc ccagcccgcg taaacgccg cctccgcgc gcgccgcgc cggtctgccc	Homo sapiens

294	3926	Prostaglandin EP2 Receptor	NP_000948.1	ac	<p> cctccgctg cggctctctg gaagccatcc cctctctacc tgaagccaa catgaaggag accggggct accgagggga tgcctcttc tgacccgcg tcaaccactc ctacacaggc atgtgggctg ccgagcgttc cgcgagggc cggggcaacc tcaagcgccc tccagggctt ggcgagatt ggcgatcgtt gtcgctggc ttcgcatca ccatgctgtc cactggtttc gtggcaacg cactggcct gctctcgtg tccgcagct accggcgccg ggagagcaag cgaaagaat cctctctgt gtgcatcggc tggctggcg taccgacct ggtcgggcag ctctcacc ccccgctgt catcgtctg taccgtcca agcagcgttg ggagcacatc gaccgctgg ggcgctctg cactctttc ggctgacca tgaactgttt cgggctctcc tcgttgttca tgcgcagcg catggcctc gagggggcg tggccatcag ggcggcgcc tggtatgga gccacatgaa gacgctgcc accgcgctg tgcgtctcg cgtgtggctg ggcgtgctg ccttgcctt gctgcgctg cggggcgtg gccagtacac cgtccagtgg ccgggacgt ggtgctcat cagcacggg cgagggggc acgggactag cctctcgcat aactggggca acctttctt cgcctctgc ttgctctcc tgggctctt ggcgtgaca gtcaccttt cctgcaact ggccacctt aagccctgg tgcctcgtc cggggccaa gccacggcat ctacgtccag tgcgcagtgg ggcgcataca cgcagagac gccattcag cttatggga tcatgtcgt gctgtcgtc tctgtctc cgtcctgat aatgatgtg aaaatgatc tcaatcacg atcagttgag cactgcaaga cacacagga gaagcagaaa gaatgcaact tcttctaag agctgttgc tggcttcac tgaccagat cttggatcct tgggtttacc tgcgtttaag aaagatcct cttcgaaagt ttgccagat gagaataa agactcag agcaagat gggcctgat ggaaggtgtt ttgtcatg atggaggcag gtcccagga cttgtgtcag tctcatgat agagaacct gcagtgtcca gctaaagtga tgacttgaag ataaatcgc ctaacctgg gatgaagt ctgtgaacta ttgtgacagc agatgaggaa tttggggaa ataaaacct gctttctgc caggtacaca tcaatggaag ctccatgact cttctttgt aaaaagaaa aaatcacag aaacacccac ctccaaact attctcttt actctctcc caagccac ccccaaat aactgtatc cagaagctgt tatgtcctgt tccatcat gttttgtac ttctactata tctacata tcaattaaac ttatgtccta ttgtttgtg aatttatatt tgcgtatata ttatcatatg taaaatttgc atctttttat tgaataatt gttctctgag attatccac attgaaacat ggagctctaa atcgttaatt ttaaccgcta tagagtattc cataattga ataaagcata attgtttgt ac </p>	Homo sapiens
295	3927	Prostaglandin EP4 Receptor	NM_000958		<p> cggcagacc tcacactga acgcttctc cccgacagc agaccggcgg gcaactgcaa gctgggact gctcttgaag gaaaaaat agcgagtaac aaatccagca ccatcttca ctgacccatc ccgctgacc tctgttcc caagtcttg aagctggca actcgcct cgggtgtcaa aaatcgacag ccactgagac cggctttgag aagccgaaga ttggtgagtt </p>	Homo sapiens

296	3927	Prostaglandin E Receptor EP4	NP_000949.1	<p> tccagactga gcaggacaag gtgaaagcag gttggaggcg ggtccaggac atctgaggcg tgacctggg ggctcgtgag gctgccaccg ctgctgcgcg tacagacca gcccttgcaat ccaaggctgc gcaccgccag ccaatacat gtccactccc ggggtcaatt cgtccgcctc cttgagcccc gaccggctga acagcccagt gaccatccc ggggtgatgt tcatcttcgg gggtggtggc aacctggtg ccatcgtggt gctgtgcaag tgcgcaagg agcaagaaga gacgaccttc tacacgtgg tatgtgggt gctgtgcaac gacctgttg gcaattttgt ggtgagccc gtgaccatcg ccacgtacat gaaggccaa tggccccggg gccagccgct gtgcgagtac agcaccttca ttctgctctt cttcagcctg tccggcctca gccatcatcg cgccatgagt gtcgagcgtt acctggccat caaccatgcc tatttctaca gccactacgt ggacaagcga ttggcgggccc tcacgtcttt tgcagtcctat gcgtccaaag tgctcttttg cgcgctgccc aacatgggtc tcggtagctc gcggctgcag taccagaca cctggtgctt catcgactgg accaccaacg tgacggcgca cgcgcctac tccatacatgt acgcggtt cagctccttc ctcattctcg ccaccgtcct ctgcaacgtg cttgtgtgct gcgcgtgct ccgcatgcac cgccagtcca tgcgcgcgac ctgcgtggc accgagcgc accacgcggc cgcgccgccc tcggttgctt cccggggcca ccccgctgccc tccccagcct tgcgcgcct cagcgacttt cggcgccgccc ggagcttccc cgcctatgccc ggcgcgcgaga tccagatgg catcttactc attgccacct ccttggtggt gctcatctgc tccatccgc tctggtgctg agtattcgtc aaccagttat atcagccaag ttggagcga gaagtcagta aaaaaccaga tttgcaggcc atccgaattg cttctgtgaa ccccatccta gacccctgga tatatacct cctgagaaaag acagtgtcca gtaagcaat agagaagact aatgcctct tctgcgcgat tggcggtgcc cgcaggagc gctccggaca gactgctca gacagtcaa ggacatcttc tgccatgtca ggccactctc gctccttcat ctcggggag ctgaaggaga tcagcagtag atctcagacc ctctgccag acctctcact gccagacctc agtgaataatg gccttggagg caggaatttg cttccaggtg tgcctggcat gggcctggcc caggaagaca ccacctcact gaggactttg cgaatatcag agacctcaga .ctcttcacag ggtcaggact cagagagtgt cttactggtg gatgagctg gtgggagcgg caggctcagg cctgcccccta aggggagctc cctgcaagtc acatttccc gtgaacact gaacttatca gaaaaatgta tataataggc aaggaagaa atacagtact gtttctggac ccttataaaa tccgtgtcaa tagacacata catgtcacat ttagctgtgc tcagaaggcc tatcatca LAVTDLLGTL LVSPVTIATY MKQWPGGQP VTIAPVMFIF GVGNLVAIV VLCKSRKEQK ETTFTYTLVCG P INHAYFYSHY VDKRLAGLTL FAVYASNVLF CALPNMGLGS SRLQYPTDTC FIDWTTNVTA HAAYSIMYAG FSSFLIATV LCNVLVCGAL LRMRHQFMR TSLGTEQHHA AAAASVASRG HPAASPALPR LSDFRRRSF RRIAGAEIQM VILLIATSLV VLICSIPLIV RVFNQLYQP SLREVSXNP DLQAIRIASV NPILDPIYI LIRKTVLSKA IEKIKLFCR IGGRRERSG QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLLPDL LPLDSENLG GRNLLPGVPG MGLAQEDTTS LRLRISETS DSSQGQDSES VLLVDEAGGS GRAGPAPKGS SLQVTFPSET LNLSKCI </p>	Homo sapiens
297	3928	Prostaglandin F2-alpha Receptor	NM_000959	<p> ggcgcggggc gccatggcac accgagcggc tcgctcttct gtcctcaga gagcccggt A ggcgccctgg gatgacaaga tgcctggact gcaatcctgc acagttttga gaggagatg acttgagtgg ttggctttta tctccacaac aatgtccatg aacaattcca aacagctagt </p>	Homo sapiens

gtctcctgca gctgcgcttc tttcaaacac aacctgccag acgaaaaacc ggctttccgt
atctttttca gtaatcttca tgacagtggg aatcttgta aacagccttg ccatcgccat
ttctatgaag gcatacaga gattlagaca gaagtcocag gcacgttttc tgcttttggc
cagcgccctg gtaatcactg atttcttttg ccatctcacc aatggagcca tagcagtatt
tgtatatgct tctgataaag aatggatccg ctttgaccac tcaaatgtcc ttgacagtat
ttttggtatc tgcattggtg tttctggtct gtgccacctt ctcttaggca gtgtgatggc
cattgagcgg tgtattggag ttcaaaaaacc aatatttcatt tctacgaaaa ttacatccaa
acatgtgaaa atgatgttaa gtgggtgtg cttgtttgct gtttccatag ctttgcctgc
catccttgga catcgagact ataaaaatca ggctgcgagg acctgggtgt tctacaacac
agaagacatc aaagactggg aagatagatt ttatcttcta cttttttctt ttctggggct
cttagccctt ggtgtttcat tgttgtgcaa tgcaatcaca ggaattacac ttttaagagt
taaatttaaa agtcagcagc acagacaagg cagatctcat catttgaaa tggtaatcca
gtctctggcg ataagtggaa atcatttctt ggaacctgt gaaacaacac tttttgctct
caacattgga ataaatggaa atcatttctt tctctgtat ttgttgagg ccatttcttg ttacaatggc
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gacacaataa aataatggca tgggagtcac actgaaagca attttgagct tatctgtctt
atttatgctt tgagtgaatc atctgttgag gtctaatgcc tctacttggc ctatttgcca
gagaacatct taatgcagcc tgcatagtga aatggttatt ttgagatcac cgctctgtag
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gcaatcctat ctagaatggg ccaattcttg tcacatttga caaataggac tgcctacatt
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tggcaaaaag tgttttacct tgagccatta ttgtgtcag agaacaaga aacagaatc
aatatataaa tcaaaagact atctgcagct agtgtgtttc ttctttacac acatatatac
acagacatca gaaaattctg ttgagagcag gttcattaaa ttgttaagt ggcataattc
aaagcctgtg ctaccagtac taagagggga agactggcaa ttgccaagc acttggggat
tattataaca attaactagg agatcaagag ataataatct ctcccaaat ttccaataa
taattgagac tttttctttg ctgttttgtg taattcaacc aaaaagaatt caatacccat
tcaaatgtc ctagggtctat cagaaattag ggaaggtagt cctgctttat aataggaaaa
tgtatttctg tataagattt ctttgccttc ataaaaatg gatttcattt aaaaattaat
ctttccctgt taggtgatt tcagattctc taggaaatct ggtgaagtaa ccagaagact

298	3928	Prostaglandin F2-alpha Receptor	NP_000950.1	MSMNSKQLV SPAAALLSNT TCQTENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQRFHQ P	Homo sapiens
				KSKASFLLLA SGLVITDFFG HLINGAIAVF VYASDKEWIR FDQSNVLCSEI FGICMVFSGE	
				CPLLLGSVMA IERCIGVTKP IFHSTKITSK HVKMMLSGVC LFAVFIALLP ILGHRDYKIQ	
				ASRTWCFYNT EDIKDWEDRF YLILFSFLGL IALGVSLCN AITGITLLRV KFKSQHROG	
				RSHHLEMIQ LLAIMCVSCI CWSPFLVTMA NIGINGNHSI ETCETTLFAL RMATWNQILD	
				PWVYILLRKA VLKNLYKLAS QCCGVHVISL HIWELSSIKN SLKVAIASES PVAEKSAST	
299	4051	Proteinase-Activated Receptor 2	NM_005242	cgccccgcc tggggaggcg cgcagcagag gctccgattc gggcgaggcg agaggctgac A	Homo sapiens
				tttctctcgg tgcgtccagt ggagctctga gtttcgaatc ggtggcgggc gattccccgc	
				gcgccccggcg tcggggcttc caggaggatg cggagcccca gcgcggcgcg gctgctgggg	
				gcgcaccatc tgcctagcgc ctctctctcc tgcagtgcca ccatccaaag aaccaataga	
				tcctctaaag gaagaagcct tatgggtaag gttgatggca catccacgt cactggaaaa	
				ggagttacag ttgaacacagt cttttctgtg gatgagtttt ctgcatctgt cctcactgga	
				aaactgacca cggctcttcc tccaattgtc tacacaattg tgtttgtggt gggtttgcca	
				agtaacggca tggccctgtg ggtctttctt ttccgaacta agaagaagca cctgctgtg	
				attacatgg ccaatctggc ctggctgac ctctctctg tcactgtggt ccccttgaag	
				attgcctatc acatacatgc caacaactgg atttatgggg aagctctttg taatgtgctt	
				attggctttt tctatggcaa catgtactgt tccattctct tcatgacctg cctcagtggt	
				cagaggtatt gggctcatcg gaaccccatg gggcactcca ggaagaaggc aaacattgcc	
				attggcatct ccttggaat atggctgctg attctgctgg tcaccatccc ttgtatgtc	
				gtgaagcaga ccatcttcat tctgcccctg aacatcacga cctgtcatga tgttttgctt	
				gagcagctct tgggtggaga catgttcaat tacttctct ctctggccat tggggtcttt	
				ctgttccag ccttctcac agcctctgcc tatgtgctga tgatcagaat gctgcgatct	
				tctgccatgg atgaaaactc agagaagaaa aggaagaggc ccatcaaac cattgtcact	
				gtcctggcca tgtacctgat ctgcttcat cctagtaacc ttctgcttgg ggtgcattat	
				tttctgatta agagccagg ccagagccat gtcctatgcc tgtacattgt agccctctgc	
				ctctctacc ttaacagctg catcgacccc ttgtctatct actttgtttc acatgatttc	
				agggatcatg caaagaacgc tctcctttgc cgaagtgtcc gactgtaaa gcagatgcaa	
				gtatccctca cctcaagaa acactccagg aaatccagct ctactcttc aagttcaacc	
				actgttaaga cctcctatgg agttttccag gtccctcagat ggggaattgca cagtaggatg	
				tggaacctgt ttaatgttat gaggacctgt ctgttatttc ctaaatcaaaa aggtctcacc	
				acataccacc g	
300	4051	Proteinase-Activated	NP_005233.2	MRSPSAWLL GAAILLAASL SCSGTIQGTN RSSKGRSLIG KVDGTSHTVG KGVTVETVFS P	Homo sapiens
				VDEFSASVLT GKLTIVFLPI VYTIVFVUGL PSNGMALWVF LFRTKKKHPA VIYMANLALA	

301	4052	Receptor 2	Proteinase-Activated Receptor 3	NM_004101	<p> DLSVWIFPL KIAYHIHANN WIYGEALCNV LIGFFYGNMY CSILFMTCLS VQRYWTVNP MGHSRKKANI AIGISLAIWL LILLVTIPLY VVKQTFIPA INITTCHEVDL PEQLLVGDMF NYFLSLAIGV FLFPAFLTAS AYVIMIRMLR SSAMDENSEK KRKRAIKLIV TVLAMYLICF TPSNLLLVVH YFLIKSQGS HVYALYIVAL CLSTLNSCID PFVYFVSHD FRDHAKNALL CRSVRTVKQM QVSLTSKHS RKSSSYSSSS TTVKTSY cctgcctgca ggcacacagga gagcaaacctt ctacagacag accaaggcct ccatctgtctg A ctgacacatg gaactgaggt gaattgtgc tccatgattt tacagatttc ataacgttta agagacggga ctcaggtcat caaatgaaa gccctcatct ttgcagctgc tggcctcctg cttctgttgc ccactttttg tcagagtggc atggaaaaatg atacaaaaa cttggcaaaag ccaaaccttac ccattaagac ctttctgtga gctcccccac attcttttga agagtcccc ttttctgcct tggaaaggctg gacaggagcc acgattactg taaaaattaa gtgccctgaa gaaagtgcct cacatctcca tgtgaaaaat gctaccatgg ggtacctgac cagctcctta agtactaaac tgatacctgc catctacctc ctgggtgttg tagttggtgt cccggccaat gctgtgaccc tgtggtgct tttcttcagg accagatcca tctgtaccac tgtattctac accaacctgg ccattgcaga ttttctttt ggtgttacct tgccttttaa gatagcttat catctcaatg ggaacaaactg ggtatttggga gaggctcctg gccggggccac cacagtcac ttctatggca acatgtactg ctccattctg ctccctgctt gcatcagcat caaccgctac ctggccatcg tccatcctt cactaccgg ggcctgccca agcacaccta tgccttggtg acatgtggac tgggtgggc aacagttttc ttatatagtc tgcattttt cactatgaag caggaatatt atctgtttca gccagacatc accacctgc atgatgttca caacacttgc gagtcctcat ctccctcca actctattac ttcactcctt tggcattctt tggattctta attccatttg tgcctatcat ctactgctat gcaagccatca tccggacact taatgcatac gatcatagat ggttgggtga tgttaaggcg agtctcctca tccctgtgat ttttaccatt tgcttttgctc caagcaatat tattcttatt attcaccatg ctaactacta ctacaacaac actgatggct tatattttat atatctcata gctttgtgct tgggtagtct taatagtgc ttagatccat tcttttattt tctcatgtca aaacccagaa atcactccac tgccttacct acaaaatagt gaaatgatct tagagaaaca gacagccat cacagagaac gctgttttc aagaacaaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatagcttc aaaggtcaaa cattacaana gcatagtag tttgtttgtt tgtttttgag actgagtctc actttatcac ccagactggc gtgcagtggc actatcttgg cctattgcaa cctctgcctc ccaggtcagc ctcccaagta gctgggatta caccaccatg cccagctact aaaaataact gtatttttag tagagacggg gtttcacctt gtgaccagg ctggtcttga actcctgacc tcaagtgtatc ttcgggctc agctcccaa agtgctggat tacaggcgtg agccactgag ccagccagca ttagtaattt ttaaaaaac tttatcagta ttttaaaaat gttaatgcag gagaaaagat atcaaacctc tatggaanaa gacatttcca tttgccttat tgcctactca agctctttaa atcaccatct tccctatttc </p>	Homo sapiens
302	4052	Proteinase-Activated Receptor 3		NP_004092.1	<p> MKALIFAAAG LLLLPFCQ SGMENTNNL AKFPLPIKTF RGAPPNSFEE FPFSALEGWT P GATITVKIKC PEESASHLV KNAFWGYLTS SLSTKLIPAI YLIVFVVGVP ANAVTLWMLF FRTRSICTTV FYTNLAIAADF LFCVTLPPFKI AYHLNGNNWV FGEVLCRATT VIFYGNMYCS ILLACISIN RYLAIVHPFT YRGLPKHTYA LVTCGLWAT FLYMLPFFI LKQEYVLVQP DITTCHEVDN TCSSSPFQL YYFISLAFFG FLIPFLIY CYAAIIRTLN AYDHRWLWYV </p>	Homo sapiens

303	4090	G Protein- Coupled Receptor GPR17	NM_005291	KASLLILVIF TICFAPSNI LIIHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK	ccgacaccca cggcgaggaga tcaactgctg cccgcagac ccctgtccct tcctcccgga A ccagcagcta gagcagtgcc aacggaggtt ggtgggctgg atccagaag ccccaagag agatgctgaa actctcagc tctgactcca gccaagactt gaatggcctt gaagtggctc ccccaggtt gatcaccaac ttctccctgg ccacggcaga gcaatgtggc caggagacgc cactggagaa catgctgttc gctccttct acctctgga tttatccctg gctttagttg gcaataacct ggctctgtgg cttttcatcc gagaccacaa gtccgggacc ccggccaacg tgttccctgat gcatctggcc gtggccgact tgtcgtgctg aatcgcatgc cgtctcacccg tgtgtaccca cttctctggg aaccactggc catttggga aatcgcatgc cgtctcacccg gcttccctt ctacctcaac atgtacgcca gcatctactt cctcacctgc atcagcgcg accgtttcct ggccattgtg caccgggtca agtccctcaa gctccgacgg cccctctacg cacacctggc cgtgtccctc cgtgtgggtg tgggtgctgt ggccatggcc ccgctgctgg tgagcccaaca gaccgtgcag accaaccaca cgggtggtctg cctgcagctg taccgggaga aggcctccca ccatgcccctg gtgtcccctg cagtggcctt cacttcccgc ttcataccaa cggtcacctg ctacctgctg atcatccgca gcctggcgga gggcctgctg gtggagaagc gcctcaagac caaggcagtg cgcattgatc ccatagtgtt ggccatcttc ctggtctgct tcgtgcccta ccacgtcaac cgtccgctct acgtgctgca ctaccgcgc catggggcct cctggccca cccagccatc ctggcccctg caaacccgat cactcctgc ctaccagcc tcaacggggc actcgacccc atcatgtatt tcttcgtggc tgagaagtgc cgccacgccc tgtgcaactt gctctgtggc aaagggtca agggcccgc cccagcttc gaagggaata ccaacgagag ctcgctgagt gccaagtcag agctgtgagc ggggggcgc gtccaggccg agcgcagact gtttaggact cagcagaccc agcaagaggc atctgcccct tccccagcca cctccccagc aagcaacctg aaatctcagc agatgcccac catttctcta gatcgccctag tctcaaccca taaaaggga gaactgacaa aggggatcca tcggccaccc ctctgcaggg gcttgatgag gctacaatgg ctcctagaca ctcaacgact tcatctgtg cagggagaga ggaggccgga agaacaaccc ctgaacaatg gaggccttcc ttccccgcta ggtcccagc ctccttcccg ctacagaatc gctcatcggc gaggtcagc agaaagaccc tgaaggcagc ctgcaaatga cccagaagag ggaactggga gtccctgggtg ggaaggggag ggaagtctcaa tactcctttg cagcgcaagg tactctgagt cccctctgta gtgcctctgc cagacacaca ctgcctgagt tgaagagaca caggccacac atttcaggct ggttgccagc ggaagtcagc actcacggcc tgcggggact cagcacagct ctggattctg gatctcctc gctgtaaccc cagcacaaag cctgcaaccc ccagagctct ttgacaggct cccaggccct ccagtcctgg acaagcatgt gcagtcacgg gagctcagct caggccaggc ctgggctgtg cactgcctc ccactgacc agaccactt cctccagaga ggcctctctc cgcctgagct atttcccttg ctagtgtgca gatatctccc taacatgtcc ttttttgat ttgtttgtac ggaccataaa tataactgta gctttaagac taataaaaaa	Homo sapiens
304	4090	G Protein- Coupled Receptor GPR17	NP_005282.1	MSKRSWAGS RKPPREMLKL SGDSQSQSMN GLEVAPPGLI TNFSLATAEQ CQGETPLENM P LFASFYLLDF ILALVNTLA LMLEIRDHKS GTPANVFLMH LAVADLSCVL VLPTRLVYHF SGNHWPFGEI ACRLTGFLFY LNMVASYFL TCISADRFIA LVHPVKSLLK RRLPYAHLAC AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVAFI FPFITVTVCY	Homo sapiens	

305	4254	Rhodopsin	NM_000539	<p> LLIIRSLRQG LRVEKRLKTK AVRMIATVLA IFLVCFVPTH VNRSVYVLHY RSHGASCATQ RILALANRIT SCLTSINGAL DPIMYFFVAE KERHALCNLL CGKRLKGPPP SFEGKTNES LSAKSEL agagtcatacc agctggagcc ctgagtggct gagctcaggc ctctgcagca ttcttgggtg A ggagcagcca cgggtcagcc acaaggggcca cagccatgaa tggcacagaa ggcctaact tctacgtgcc ctctccaat gcagcgggtg tggtaacgag ccccttcgag taccacagt actacctggc tgagccatgg cagttctcca tgctggccgc ctacatgttt ctgtgatcg tgctgggctt ccccatcaac ttctccaagc tctacgtcac cgtccagcac aagaagctgc gcaagcctct caactacatc ctgctcaacc tagccgtggc tgacctctc atggtcctag gtggcttcac cagcacccctc tacacctctc tgcatggata ctctgtctc gggccacag gatgcaattt ggagggttc ttggccacc ttggcggtga aattgacctg tggctcttgg tggctctggc catcgagcgg tacgtgggtg tgtgtaagcc catgagcaac ttccgcttcg gggagaacca tgccatcatg gggtgtgctt tcacctgggt catggcgtg cctgcgcgcg caccctcact cgcgggtgg tccaggtaca tcccggagg cctgcagtc tctgttgga tggactacta cagctcaag cgggaggtca acaacgagtc tttgtctc tacatgtctg tggctcactt caccatcccc atgattatca tctttttctg ctatgggcag ctgtcttca ccgtcaagga ggccgctgcc cagcagcagg agtcagccac cacacagaag gcagagaagg aggtcacccg catgttcac atcatgttca tgcgttctc gatctgtgg gtgcctacg caagcgtggc attctacatc ttacaccacc aggtcttcca ctctggctcc atcttcata ccatcccgag gtcttttggc aagagcgcg ccatctacaa cctgtctac tatatcata tgacaagca gtctcggaac tgcattgtca ccacctctg ctgcggcaag aacctactg gtgacgatga ggctctgtct accgtgtcca agacggagac gagccagggt gcccggcct aagacctgcc taggactctg tggccgacta taggcgtctc ccatccctca cacttcccc cagccacagc catccacca ggagcagcgc ctgtgcagaa tgaacgaagt cacataggct ccttaatttt tttttttttt ttaagaaata attaatgagg ctctcactc acctgggaca gcttgagaag ggacatccac caagacctac tgatctggag tcccacgttc ccaaggcca gcgggatgtg tgccctcctt cctcccaact catctttcag gaacacgagg attcttgctt tctggaaaag tgtccagct tagggataag tgtctagcac agaattgggc acacagtagg tgcctaataa atgtgtgatg gatgcaggaa ggaatggagg aatgaatggg aaggagaac atatctatcc tctcagacc tgcagacc agcaactcat acttgggctaa tgatatggag cagttgtttt tccctccctg ggctcactt tctctccta taaaatggaa atcccagatc cctgggtcctg ccgacacgca gctactgaga agaccaaaag aggtgtgtgt gtgtctatgt gtgtgtttca gcattttgta aatagcaaga agctgtacag attctagtta atgttgtgaa taacatcaat taatgtaact agttaattac tatgattatc acctcctgat agtgaacatt ttgagattgg gcattcagat gatggggttt caccacacct tggggcaggt tttaaaaat tagctaggca tcaaggccag accagggctg ggggttgggc tgtaggcagg gacagtcaca ggaatgcagg atgcagtcac cagacctgaa aaaaacaac tgggggagggg ggacgggtgaa ggccaagtcc ccaatgaggg tgagattggg cctgggggtct caccctagt gtggggcccc aggtccctg cctcccttc ccaatgtggc ctatggagag acaggtcttt ctctcagcct ctggaagcca cctgctcttt tgctctagca cctgggtccc agcatctaga gcatggagcc tctagaagcc atgtcacc cccacattt aattaacagc tgagtcctctg atgtcatcct </p>	Homo sapiens
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306	4254	Rhodopsin	NP_000530.1	<p>tactcgaaga gcttagaaac aaagagtggg aaattccact gggcctacct tccttgggga</p> <p>tggtcatggg cccagtttc cagtttccct tgccagataa gcccatttc agcagttgct</p> <p>agtcattct ccattctgga gaattctctc caaaaagctg gccacatctc tgaggtgtca</p> <p>gaattaagct gcctcagtaa ctgtccccc ttctccatat aagcaagcc agaagctcta</p> <p>gctttacca gctctcctg gagactaagg caaattgggc cattaagaag tcagctctta</p> <p>tggttgatt aacggtggtg ggtttgttg ctttcacact cttaccacag gatagattga</p> <p>aactgccagc ttccacctga tccctgaccc tgggatggct ggattgagca atgagcagag</p> <p>ccaagcagca cagagtcccc tggggctaga ggtggaggag gcagtctctg gaatgggaaa</p> <p>aacccca</p>	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	<p>agagacagct gggccactgg cagtgaggga gagtgaggat ggcagagacc agtgccctgc</p> <p>ccactggctt cggggagctc gaggtgctgg ctgtgggat ggtgctactg gtggaagctc</p> <p>tctccggtct cagcctcaat accctgacca tcttctctt ctgcaagacc cggagctgc</p> <p>ggactccctg ccactactg gtgctgagct tggctcttgc ggacagtgg atcagcctga</p> <p>atgcccctgt tgcagccaca tccagccttc tccggcgtc gccctacggc tcggacggct</p> <p>gccaggctca cggcttccag ggcttttga cagcgttggc cagcatctgc agcagtgcag</p> <p>ccatgcgat ggggcgttat caccactact gcacccgtag ccagctggcc tggaaactcag</p> <p>ccgtctctct ggtgctcttc gtgtggctgt ctcttgcctt ctgggcagct ctgccccttc</p> <p>tgggttgggg tcaactatgac tatgagccac tggggacatg ctgcaccctg gactactcca</p> <p>agggggacag aaacttcaac agcttctct tcaactatgc ctcttccaac ttgcccctgc</p> <p>ccctcttcat cagcatcact tctacagtc tcatggagca gaaactgggg aagagtggcc</p> <p>atctccaggt aaacaccact ctgccagcaa ggacgtgct gctcggctgg gggccctatg</p> <p>ccatcctgta tctatacgca gtcacgcag acgtgacttc catctcccc aaactgcaga</p> <p>tgggtccccg cctcattgac aaaaatgtgc ccacgatcaa tggccatcaac tatgcccctg</p> <p>gcaatgagat ggtctgcagg ggaatctggc agtgcctctc accgcagaag agggagaagg</p> <p>accgaaccaa gtgagcctgc caccctggag tgagcccccag gccaggaggc tgttccagga</p> <p>gtcctgccc aagcctcgg tggccaagcc cagacactca cccaccttc ccagtggccc</p> <p>cgtggatcct ggtcctaggg tggacacagg attcagaaa acaccaggct gcacagaaag</p> <p>agccagatgg acctgagtgt cggtcacagc cctctacact caaggtctgag aggcctcagg</p> <p>aaagtcatc ctttttaaaa ataataataa atgtaagggg gtacagtga gttttgttac</p> <p>atggatagat tgcctagtg tgaagtctgg gcttttagt taaccatcac cctaataata</p> <p>tacgttgtag ccattaagtt atttctcat cctcaccccc tcccaccttg tcaccttct</p> <p>gagttctccaa tgtctattat tccacactcc atgtccactg gtacacatta tttagtcccc</p> <p>acttacaagt gagaacatgt ggtatttgac ttcca</p>	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	<p>ADSGISLNAL VAATSSLLRR WPGSDGCQA HGFQGFVTAL ASICSSAAIA WGRYHHYCTR</p>	Homo sapiens

309	4321	Coupled Receptor RPE	NM_002980	<p>SQLAWN SAVS LVLFWLSSA FWAALPLL GW GHYDYEPLGT CCTLDYSKGD RNFTSFLFTM SFFNFAMPLF ITITSYSIME QKLGKSGHLQ VNTTLPARIL LLGWGPYAIL YLYAVIADVT SISPKIQMVP ALIAKMVPTI NAINYALGNE MVCRGIWQCL SPQKREKDRRT K acgaggccgg ccggagccgg ggaccctcgg cggggcgctg agtcccgag cgggcagagg A gcacgggcag gcggagctgg ggccgcttc gggaacacgtg cgggaccat gcgtccccc ctgtcgccgc cggctgacga gctactactg ccggctcgc tcgctcgcc cgcgcactcg actggagccc ttcccgcact atgtgacgtg ctacaagtgc tgtgggaaga gcaagaccag tgctgcagg aactctccag agagcagaca ggagacctgg gcacggagca gccagtgcga ggttgtagg ggatgtggga caacataagc tgctggccct ctctgtgcc ggccgggatg gtggaggtgg aatgcccgag attcctcgg atgctacca gcagaaatgg ttcttggtc cgaaactgca cacaggatgg ctggtcagaa acctcccca ggctaactt ggctgtggc gttaagtga acgactcttc caacgagaag cggcactct acctgtgaa gctgaaagt atgtacacc tgggctacag ctccctccctg gtcatgctcc tggtcgccc tggcatcctc tgtgctttcc ggaggctcca ctgcactcg aactacatcc acatgcacct gttcgtgtcc ttcatccttc gtgcccgtgc caacttcac agggacgcgg tgcctcttc ctccagtatg gtcacctact gcgataccga caggcgggc tgcaagctgg tcatggtgct gtccagttac tgcatcatgg ccaactactc ctggctgctg gtggaggcc tctacctca cacactcctc gccatcctct tcttctctga aagaaagtac ctccaggatc ttgtggcatt cggatggggt tctccagcca tttttgtgc ttgtgggct attgccagac actttctgga agatgttggg tgctgggaca tcaatgccaa cgcactcac ttgtggatca ttctgtgtcc tgtgactctc tccatcctga ttaatttcac ccttttcata aacattctaa gaatcctgat gagaaactt agaacccaag aaacaagagg aatgaagtc agccattata agcctggc caggctccact ctctgctga tccccctct tggcatccac tacatcgctc tgccttctc ccagaggac gctatggaga tccagctgtt ttgtgaacta gccctggct cattccagg actggtggg gccgtcctct actgcttct caatggggag gtgcagctgg aggttcagaa gaagtggcag caatggcacc tccgtgagtt cccactgcac ccgctggcct ccttcagcaa cagcaccaag gccagccact tggagcagag ccagggcacc tgcaggacca gcatcatctg agaggctgga gcagggtcac ccacggacag agaccaagag aggtcctgg aggtcggc actgctgtg gacagccagt ctccccagca gacacctgt gctcctctc agctgaagat gccctcccc aggccttga ctctccgaa gggatgtgag gcaatgtgg gcaggacaag ggctgtggat ttggttcgtt tgcctctctg ggaagagaag ttcaagggtc ccagaaagg acagggaat aatgggtgcc tgggatgaga ttc MRPHLSPPLQ QLLLPVLLAC AAHSTGALPR LCDVLIQVLWE EQDQCLQELS REQTGDLGTE P QPVPCEGMW DNISCWPSSV PGRNVEVECP RFLRLMTSRN GSLFRNCTQD GWSETPRPN LACGVN VNS SNEKRHSYLL KLRMYTVGY SSSLVMLLVA LGILCAFRRL HCTRNYIHMH LFVSLILRAL SNFIKDAVLF SSDDVTYCDP HRACKLVMV LFQYCIIMANY SWLLVEGLYL HTLLAISFFS ERKYLQGFVA FGWSPAI FV ALWAIARHFL EDVGCWDINA NASIWIIRG PVILSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARSTLLLIPL FGIHYIVFAF SPEDAMEIQL FFEALGGSFQ GLVVAVLYCF LNGEVQLEVO KKWQWHLRE FPLHPVASFS NSTKASHLEQ SQGTCTSI I</p>	Homo sapiens
310	4321	Secretin Receptor	NP_002971.1	<p>MRPHLSPPLQ QLLLPVLLAC AAHSTGALPR LCDVLIQVLWE EQDQCLQELS REQTGDLGTE P QPVPCEGMW DNISCWPSSV PGRNVEVECP RFLRLMTSRN GSLFRNCTQD GWSETPRPN LACGVN VNS SNEKRHSYLL KLRMYTVGY SSSLVMLLVA LGILCAFRRL HCTRNYIHMH LFVSLILRAL SNFIKDAVLF SSDDVTYCDP HRACKLVMV LFQYCIIMANY SWLLVEGLYL HTLLAISFFS ERKYLQGFVA FGWSPAI FV ALWAIARHFL EDVGCWDINA NASIWIIRG PVILSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARSTLLLIPL FGIHYIVFAF SPEDAMEIQL FFEALGGSFQ GLVVAVLYCF LNGEVQLEVO KKWQWHLRE FPLHPVASFS NSTKASHLEQ SQGTCTSI I</p>	Homo sapiens

311	4480	Somatostatin NM_001049 Receptor Type 1	atgttcccc atggcaccg ctcctctct ctcctctct tctctctct ctagccccc cccggggcagc A tgcggcgaag gcggcggaag caggggcccc gggcgccggg ctgcggaagg catggaggag ccaggcgcaa atgcgtccca gaacgggacc ttgagcgagg gccagggcag cgccatccg atctctttca tctactcgt ggtgtgctg gtggggcctg gtgggaactc tatggtcact taagtgtacc tgcgtatgc caagatgaag acggccacca acatctacat cctaaatctg gccattgctg atgagctgct catgctcagc gtgcccctcc tagtcacctc cactgtgtg cgccactggc ccttcggtgc gctgctctgc cgcctcgtgc tcagcgtgga cgcggtcaac atgttcacca gcatctactg tctgactgtg ctcagcgtgg accgtactgt ggcgtgtgtg catcccatca agggggcccc ctaccggcgg cccaccgtgg ccaaggtagt aaacctgggc gtgtgggtgc tatcgctgct cgtcatcctg cccatcgctg tcttctctcg caccggggc aacagcgagc gcacgggtgc ttgcaacatg ctcatgccag agcccgctca acgtggctg gtgggcttcg tgtgtacac atttctcatg ggcctcctgc tgcctgggg ggcctatctgc ctgtgctacg tgcctcatcg tgctaagatg cgcctggggg ccttcaaggc cggctggcag cagcgcaagc gctcggagcg caagatcacc ttaattggtg tgatgtgtgt gatgtgtgtt gtcatctgct ggtgccttt ctacgtggcg cagctggtta acgtgtttgc ttagcaggac gacggcacgg tgagtcagct gtgggtcact ctcggctatg ccaacagctg cgccaaaccc atcctctatg gctttctctc agacaacttc aagcgctctt tccaacgcat cctatgctc agctggatgg acaacggcgc ggaggagcgg gtgactatt acgccaccgc gctcaagagc cgtgctctaca gtgtggaaga ctcccaacct gagaacctgg agtccggcgg cgtcttccgt aatggcacct gcaagtcctc gatcacgacg cctctga ISFTYVCL VGLGNSMVI YVILRYAKMK TATNIYILNL AIADELIMLS VPFLVTSTLL P RHWEPGALLC RLVLSDAVN MFTSIYCLTV LSVDRYVAV HPKAAARYRR PTVAKVAVNLG VWVLSLLVIL PIVVFSRTAA NSDGTVACNM LMPEPAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLIILAKM RMVALKAGWQ QKRSEKKT LMVMVMVME VICWMPFYV QLVNVFAEQD DATVSQLSVI LGVANSKANP ILYGLSDNF KRSFQRIICL SWMDNAAEEP VDYATATLKS RAYSVEDFQP ENLESGGVER NGTCTSRITT L	Homo sapiens
312	4480	Somatostatin NP_001040.1 Receptor Type 1	atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtggtgtc aaccaacacc tcaaacccaga cagagccgta ctatgacctg acaagcaatg cagtccctac attcatctat ttgtgtgtct gcatcattgg ttgtgtgtggc aacacacttg teatttatgt cactctccgc tcttccatgc tgggtctgcc ttcttggct tacatcctca acctggccat cgcagatgag ccttccatgc ttgtccgggt ggtcatgact atgcaagggtg ccttggttcca ctggcccttt ggcaaggcca ttgtccgggt ggtcatgact gtggtatggca tcaatcagtt caccagcatc tcttcgctga cagtcacatg catgaccga tacctggctg tgggtccacc catcaagtcg gccaagtga ggagaccccg gacggccaaag atgatcacca tggctgtgtg gggagtctct ctgtgtgtga ccttgcccat catgatata gctgggctcc ggagcaacca gtgggggaga agcagctgca ccatcaactg gccagggtgaa tctggggctt ggtacacagg gtccatcatc tacactttca ttctgggggt cctggtaacc ctcaccatca tctgtctttg ctacctgttc attatcatca agtgaagtc cctgtggaatc cgagtggggt cctctaagag gaagaagtc gagaaagag tcaaccgaat ggtgtccatc gtgtgggctg tcttcatctt ctgctggctt ccttctaca tattcaacgt ttcttccgct	Homo sapiens
313	4481	Somatostatin NM_001050 Receptor Type 2		Homo sapiens

Accession	Gene	Protein	Species
314	Somatostatin Receptor Type 2	MDMADEPLNG SHTWLSIPED LNSGVSTNT SNOTEPYDL TSNAVLTFIY FVCIIGLGG P	Homo sapiens
4481	Somatostatin Receptor Type 2	NTLVIYVILR YAKMKITINI YILNLAIADL LFMGLPLFLA MQVALVHPWF GKALCRVMT VDGINQFTSI FCLTVMSIDR YLAVVHPIS AKWRRPRTAK MITMAWGVLS LVLILPIMIY AGLRSNQWR SSKTINWPE SGAWYTGFI YTFIIGFLVP LTIICLCYL F IIKVKSSGI RVGSSKRKKS EKKVTRMVS I VVAVFICWL PFYIENVSSV SMAISPTPAL KMFEDFVVL TYANSCANPI LYAFLSDNEK KSFQNVLCIV KVSQDIDGER SDSKQDKSRL NETTETQTL LNGDLQTSI	Homo sapiens
315	Somatostatin Receptor Type 3	atggacatgc ttcatcatc atcgtgtgccc acgacctcag aaactgagaa tgcctcctcg A gcttgcccc cagatgccac cctgggcaac gtgtggcggc gcccaagccc ggcaggcgtg gccgtcagtg gcgttctgat ccccttggtc taccttggtg tgtgctggtt gggcctgctg ggtaactcgc tggtaactca tgtgtcctg cggcacacgg ccagcccttc agtcccaac gtctacatcc tcaacctggc gctggccgac gagctcttca gcttgggctt gcccttctctg gccgcccaga acgcccctgc tctactggccc ttccgtctccc tcatgtgccc ccttggtcatg gcggtgggatg gcataaacca gttaaccagc atattctgcc tgaactgtcat gacgtggac cgctacctgg ccgtggtaca tcccaccgc tggcccgcct ggccacacagc tccggtggcc cgcaaggatca gcggtgctgt gtgggtggcc tcagccgtgg tgggtctgcc cgtggtggtc ttctcgggag tgcccccgcg catgagcacc tgccacatgc agtgcccga gccggcggcg gctggcgag ccggttcat catctacacg gccgcaatgg gcttctctgg gccgtgctg gtcatctgcc tctgctacct gctcatctg gtgaagtggt gctcactgg gcgcccgggtg tgggcacct cgtgccagcg gcgcccgcgc tccgaacgca ggttcacgcy catggtggtg gccgtggtgg cgctctctgt gctgtgctgg atgccctct acgtgctcaa catcgtcaac gtggtgtgcc cactgccga ggagcctgcc ttctttgggc tctacttctt ggtggtggcg ctgcccctatg ccaacagctg tgccaaacccc atcctttatg gcttctcttc ctaccgcttc aagcagggtt tccgagggt cctgctgcgg cctcccgcc gtgtgcgcag ccaggagccc actgtgggc ccccgagaa gactgaggag gaggatgagg aggagaggga tggggaggag agcaggagg gggccaagg gaaaggagatg aacggccggg tcagccagat cagcagcct ggcaccagcg gccaggagcg gccgccagc agagtggcca gcaaggagca cagctccta cccccaagg cttccactgg ggagaagtcc agcacatgc gcataccta cctgtatg MDMLHPSSVS TTSEPENASS AWPPDATTGN VSAGSPAGL AVSGVLIPLV YLVVGVGLL P	Homo sapiens
4482	Somatostatin Receptor Type 3	GNSLVIYVVL RHTASPSVTN VYILNLALAD ELEMLGLPFL AAQNALSYP FGSLMCLVM AVDGINQFTS IFCLTVMSVD RYLAVVHPTR SARWRTPAVA RTVSAVWVA SAVVLPVW FSGVPRGMSI CHMQWPEPAA AWRAGFIYT AALGFGPLL VICLCYLLI VVRSAGRRV WAPSCQRRR SERRVTRMV AVVALFVLCW MPFYVLNIV WCLPPEEPA FFLYFLWA LPYANSCANP ILYGFLSYRF KQGFRRVLLR PSRRVRSQEP TVGPPEKTEE EDEEDGEE SREGKGKEM NGRVSOITQP GTSGQERPPS RVASKEQOLL PQEASTGEKS STMRIISYL	Homo sapiens
316	Somatostatin Receptor Type 3		Homo sapiens

317	4483	Somatostatin NM_001052 Receptor Type 4	atgagcgccc cctcgacgct gccccccggg ggcgaggaag ggctggggac ggctggcccc A tctgcagcca atgccagtag cgtccggcg gaggcgagg aggcgtggc gggcgccggg gacgcgggg cggcgggcat ggtcgctatc cagtgcatt acgcgtgggt gtgcctgggtg gggctgggtg gcaacgcctt ggtcatcttc gtgaccttc gtaegccaa gatgaagacg gctaccacca tctacctgct caacctggcc gtacggcag agctcttcac gctgagcgtg cccttcgtgg cctcgtcggc cgcctcgcc cactggcct tcggctccgt gctgtgccc gcggtgctca gcgtcgacgg cctcaacatg ttcaccaggt tcttctgtct caccgtgtc agcgtggacc gctacgtggc cgtggtgcac cctctgcgc cggcgacctc cggcgggccc agcgtggcca agctcatcaa cctgggcgtg tggctggcat cctgttgggt cactctcccc atcgccatct tcgcagacac cagaccggct cgcggcgcc aggcgtggc ctgcaacctg cagtggccac acccgccctg gtcggcagtc ttcgtggctt acacttctct gctgggcttc ctgctgccc gctggtgcat tggcctgtgc tacctgtcca tcgtgggcaa gatgcgcgc gtggccctgc gcgtggctg gcagcagcg agcgctcgc agaagaaaat caccaggtg gtgctgatgg tcgtggtcgt ctttgtgtc tgctggatgc ctttctaagt ggtgcagctg ctgaacctcg tcgtgaccag ccttgatgcc accgtcaacc agtgttccct tatectcagc tatgccaaca gctgcgcaa cctattctc tatggtcttc tctccgacaa ctccgcgcga tccttccagc ggttctctg cctgcgctgc tgcctcctgg aagtgctgg aggtgctgag gaggagcccc tggactacta tgcactgct ctcaagagca aagtggggc aggtgcatg tgccccccac taaatgcca gcaggagcc ctgcaaccag aaccggcgcc caagcgcatc ccctcacca ggaccaccac cttctga	Homo sapiens
318	4483	Somatostatin NP_001043.1 Receptor Type 4	MSAPSTLPPG GEEGLGTAMP SAANASSAPA EAEAVAGPG DARAAGMVAI QCIYALVCLV P GLVGNALVIF VILRYAKMT ATTIIYLLNLA VADELFMLSV PFVASSAALR HWPFSGVLICR AVLSVDGLNM FTSVFLTVL SVDRYVAVVH PLRAATYRRP SVAKLINLGW WLASLLVTLR IAIFADTRPA RGGQAVACNL QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMRA VALRAGWQQR RRSEKKITRL VLMVVVTVL CWMFFYVQL LNLVWTSIDA TVNHVSLILS YANSCANPIL YGFLSDNERR SFQRLCLRC CLLEGAGGAE EEPLDYYATA LKSKGGAGCM CPPLKCQQA LQPEPGRKRI PLTRTTTF	Homo sapiens
319	4484	Somatostatin NM_001053 Receptor Type 5	atggagcccc tgttcccagc ctcccagccc agctggaacg cctctcccc gggggctgccc A tctggaggcg gtgacaacag gacgtgggtg gggccggcgc cctcggcagg gggccggcg gtgctgggtg ccgtgctgta cctgctgggtg tgtgcggcgc ggctggcgg gaacacgctg gtcatctacg tgggtgctgc cctgcgcaag atgaagaccg tcaccaacat ctacattctc aacctggcag tggccgacgt cctgtacatg ctggggctgc ctttccctggc cagcgagaa gcgcgtcct tctggccctt cggccccctc cgtgcccgc tggctatgac gctggacggc gtcaaacagt tcaccagtgt cttctgcctg acagtcatga gcgtggaccg ctacctggca gtggtgcacc cgtgagctc ggcgcgtg ggcgcgcgc gtgtggccaa gctggcgagc gcgcggcct ggttccctgc tctgtgcatg tcgctgccc tectgggtgt cgcggacgtg caggagggcg gtacctgcaa cgcagctgg ccggagcccc tggggctgtg gggcgccctc ttcatcatct acacggccgt gctgggcttc ttgcgcgcgc tgcctggcat ctgctgtgc tacctgctca tcgtggtgaa ggtgagggcg gcgggcgtgc gcgtgggctg cgtgcggcgg cgctcgagc ggaagtgac gcgatgggtg ttggtgggtg tgctgggtgt tgcgggatgt tggctgccct tcttaccgt caacatcgtc aacctggcgc tggcgctgccc ccaggagccc	Homo sapiens

320	4484	Somatostatin NP_001044.1 Receptor Type 5	MEPLFPASTP SWNASPPGAA SGGGDNRTLV GPAPSAGARA VLVPVLYLLV CAAGLGENTL P VIYWLRFK MKTWTNIYIL NLAVALVLYM IGLPFLATQN AASFWPFGPV ICLRLVMTLDG VNQFTSVFCL TVMSVDRYLA VVHPLSSARW RRPVRKVLAS AANWLSLCM SLPLLVFADV QEGGTCNASW PEPVGLWGA VFIYTAVLGF FAPLLVICLC YLLIVVKVRA AGVRVGCVR RSEKVTIRMV LVVVLVFAQC WLPEFTVNIV NLAVALPQEP ASAGLYFFV ILSYANSCAN PVLYGFLSDN FRQSFQKVL C LRKSGSAKDA DATEPRPDRI RQQEATPPA HRAAANGIMQ TSKL	Homo sapiens
321	4552	Tachykinin Receptor 1	aattcagagc caccgcgggc aggcggggcag tgcattccaga agcgtttata ttctgagcgc A cagttcagct ttcaaaaaa gtcgtgccc taaaaagcct tccaccctcc tgtctgcttt agaagggacc tgagcccccag ggcgcagcca caggactctg ctgcagaggg gggttgtgta cagatagtag gctttacgcc tagcttcgaa atggataaacg tccctccggg ggactcagac ctctcccccac acatctccac taacacctcg gaacccaatc agttcgtgca accagcctgg caaatgtgcc ttgtggcagc tgcctacacg gtcattgtgg tgacctctgt ggtgggcaac gtggtagtga tgtggatcat cttagcccc aaaaagtga ggacagtgc gaactatatt ctgggtgaac tggccttcgc ggagccctcc atggctgcat tcaatacagt ggtgaacttc acctatgctg tcacaacga atggtactac ggctgttct actgcaagt ccacaacttc ttcccatcg ccgctgtctt cgcagatc tactccatga cggctgtggc ctttgatagg tcatggcca tcatacatcc cctccagccc cggctgtcag ccacagccc caaagtggc atctgtgtca tctgggtcct ggtctcctg ctggccttc ccagggcta ctactcaacc acagagacca tgcagcagc agtcgtgtgc atgatcgaat ggccagagca tccgaacaag attatgaga aagtgtacca catctgtgtg actgtgtga tctacttct cccctgctg gtgattggct atgcatacac cgtagtggga atcacactat gggccagtga gatccccggg gactcctctg accgtacca cagcaagtc tctgccaagc gcaagggtgt caaatgatg attgtcgtgg tbtgcactt cgcactctgc tggctgccct tccacatctt cttcctcctg ccctacatca accagatct ctacctgaag aagtttatcc agcaggctca cctggccatc atgtggctgg ccctgagctc caccatgtac aaccccatca tctactgctg cctcaatgac aggttccgtc tgggcttcaa gcctgccttc cgtgtgtgccc cctcatcag cgcggcgac tatgaggggc tggaaatgaa atccaccgg tatctccaga cccagggcag tgtgtacaaa gtcagccgcc tggagaccac catctccaca gtgggtgggg cccacgagga ggagccagag gacggcccca agggcacacc ctgctccctg gactgacct ccaactgctc ttcacgaagt gactccaaaga ccatgacaga gacttccagc ttctcccca atgtgctctc ctaggccaca gggcttttgg caggtgcagc cccactgcc ttgacctgc ctccttcat gcatggaaat tccttctatc tggaaaccatc agaacacccc tcacactggg acttgcaaaa aggttcagta tgggttaggg aaacattcc atccttgagt caaaaaatc caattcttcc ctatctttgc caccctcatg ctgtgtgact caaaccaaat cactgaactt tgcctgagcct gtaaaaataa aggtcgagcc agcttttct caagagccca atgcattcca ttctgggaag tgactttggc	Homo sapiens

322	4552	Tachykinin Receptor 1	NP_001049.1	tgcatgcgag tgctcatttc aggatg	MDNVLPVDS LSPNISTNTS EPNQFQPAW QIVLWAAAYT VIVVTSVGN VVMWIIIAH P KRMRTVTNYF LVNLAFAEAS MAAFTVNVNF TYAVHNEWY GLFYCKFHFNF FPIAAVFAFI YSMTAVAFDR YMAIIHPLQP RLSATATKV ICVWVLLALL LAFPOGYST TETMPSRVVC MIEWPEHPNK IYKVVYHICV TVLIYFLPLL VIGYATVVG IFLWASEIIPG DSSDRYHEQV SAKRKVVKMM IVVCTFAIC WLPFHIFLL PYINPDLYLK KFIQQVYLAI MWLMSSTMY NPILYCCLND RFRLGFKHAF RCCPFIAGD YEGLEMKSTR YLQTQGSVYK VSRLETTIST VUGAHEEPE DGPKATPSSL DLTSNCSSRS DSKTMTESFS FSSNVLS	Homo sapiens
323	4687	Thrombin Receptor	NM_001992	ggcgggggc gcacagagc agaggggctt gcgagcggcg gctgagggac cgcggggagg A ggcgccgag cggctccagc gcagagactc tcactgacg ccgaggggccc ctctctcgct ccgcgcgcg gaccgcgcg cccagtcctt cccgcgcgcg ctaaccggccc cagacacagc gctcgcgag ggtcgttg accctgatc taccgtggg caccctgccc tctgctgccc gcgaagaccg gctccccgac cgcgagaagt caggagagag ggtgaagcgg agcagcccga ggcggggcag cctccccgag cagcgcgcg cagagccccg gacaatgggg ccgcgggcgcg tgctgctggt ggccgctgc ttcagtctgt gcggcccgct gttgctgccc cgcacccggg ccgcgaggc agaatacaaaa gcaacaaatg ccacctaga tccccggtca ttcttctca ggaaacccaa tgataaatat gaaccatttt gggaggatga ggagaaaaat gaaagtgggt taactgaata cagattagtc tccatcaata aaagcagctc tcttcaaaaa caactctctg cattcatctc agaagatgccc tccggatatatt tgaccagctc ctggctgaca ctcttctgccc catctgtgta caccggagt tttgtagtca gctcccaact aaacatcatg gccatcgttg tgttcatcct gaaaatgaag gtcaagaagc cggcggtggt gtacatgctg caccctggcca cggcagatgt gctgtttgtg tctgtgctcc cctttaaagt cagctattac ttttccggca gtgattggca gttgggtct gaattgtgtc gcttcgtcac tgcagcattt tactgtaaca tgtacgcctc tatctgtctc atgacagtca taagcattga ccggtttctg gctgtggtgt atcccatgca gtccctctcc tggcgtactc tgggaagggc ttccttcaat tgtctggcca tctgggcttt ggccatcgca ggggtagtgc ctctcgtcct caaggagcaa accatccagg tgcccggtct caacatcact acctgtcatg atgtgtcaaa tgaacacctg ctggaaggct actatgccta ctacttctca gcttctctg gcttctctt ttttgtgccc ctgatcattt ccacggctg ttatgtgtct atcattcgat gtcttagctc ttcgcagatt gccaacccga gcaagaagtc ccgggctttg ttctgttcag ctgctgtctt ctgcattctc atcatttgc tcggacccac aaacgtctc ctgattgccc attactcatt ccttctcact acttccacca cagaggctgc ctactttgccc taactctct gtgtctgtgt cagcagcata agctcgtgca tcgacccctc aattactat taacttctc ctgagtcca gaggtagctc tacagtatct tatgtgcaa agaaagtcc gatccagca gttataacag cagtgggcag ttgatggcaa gtaaaatgga tacctgtctc agtaacctga ataacagcat atacaaaaag ctgttaactt aggaaaaagg actgctggga ggttaaaaaa aaaagttaa aaagtgaat aacctgagga ttctattagt cccaccccaa actttattga ttacacctc aaaaacacag atgtacgact tgcatacctg ctttttatgg gactgtcaa gcatgtattt ttgtcaatta ccagaaagat aacaggacga gatgacggtg ttattccaag ggaattatgc caatgctaca gtaataatg aatgtcactt ctggatatag ctaggtgaca tatacatact tacatgtgtg tatatgtaga	Homo sapiens	

324	4687	Thrombin Receptor	NP_001983.1	<p>tgtatgcaca cacatatatt attgacagt cagtagagaa taggcacttt aaacacactt tccccgcac ccagcaatt atgaataata tctctgatt cctgatttaa tatgcaaatg ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc atagtttggg cttgtaccac ttttgcaaat aagtgtattt tgaattgttt tgacggcaag gttaagtta ttaagaggtg agacttagta ctatctgttc gtagaagtbc tagtgttttc aattttaaac atatccaagt ttgaattcct aaaattatgg aacagatga aaagcctctg ttttgatag gtagtatatt ttacatttt acacactgta cacataagcc aaactgagc ataagtcctc tagtgaatgt aggtggctt tcagagtgg ctattcctga gagctgcatg tgctcgcccc cgatggagga ctccaggcag cagacacatg ccagggccat gtcagacaca gattggccag aaaccttctt gctgagcctc acagcagtga gactggggcc actacatttg ctccatcttc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaagcaga atgtgatgc ctgagggtg atgaccatga aagacttctg taccatctt aaaaacaag aaagaaggca tggacttctg gatgcccac cactgggtgt aaacacatct agtagtgtt ctgaaatgc agttctgata tgggaagcacc cattatgccc tgtggccact ccaatagggtg ctgagtgtag agagtggat aagacagaga cctggccctc agagcaaatg agatcatgca tagagtgtga tgtatgtga ataaatatgt ttacacacaa caaggcctgt cagctaaaga agtttgaaca tttgggttac tatttctgt taatttggc actatttatt tacaatgtt aggacatata ttttttaaaa taagtctgat ttaattgggc actatttatt tacaatgtt ttgtcctaata gattgctcaa atcaggtttt cttttaagaa tcaatcatgt cagtctgctt agaaataaca gaagaaaaata gaattgacat tgaattctag gaaaattatt ctataatttc cattactta agacttaatt agactttaaa agcatttttt aacctcctaa gtatcaagta tagaaaaatc tcatggaatt cacaagtaa ttgggaattt aggtgaaac atatctcta tcttacgaaa aaatggtagc attttaaaaa aatatagaaa ttgcaaggca aatgtttatt taaaagagca gcccaggcgc ggtggtcac gcctgtaac ccagcacttt gggaggctga ggcgggtgga tcacgaggtc aggagatcga gaccatcctg gctaaacacg tgaacccgt ctctactaaa atgcaaaaa aaattagccg ggcgtggtgg caggcacctg tagtccacg tactcgggag gctgaggcag gagactggcg tgaacccagg agcgggacct ttagtgagc cgagatcgcg ccactgtgct ccagcctggg caacagagca agactccatc tc MGPRRLLLVA ACFSLCGPLL SARTARRPE SKATNATLDP RSFLLRNPND KYEPFWEDEE P KNESGLTEYR LVSINKSSPL QKQLPAFISE DASGYLTSSW LTLFVPSVYT GFVVSLLPLN IMAIWVFIK MKVKKPAVY MLHLATADVL FVSVLPFKIS YFSGSDWQF GSELCRFVTA AFYCNMYASI LMTVISIDR FLAVVYPMQS LSWRTLGRAS FTCLAIWALA IAGVPLVLK EQTIQVPLN ITTCHDVINE TLEGGYAYY FSASFVFFF VPLIISTVCY VSIIRCLSSS AVANRSKSR ALFLSAVFC IFICFGPTN VLLIAHYSEL SHTSTTEAY FAYLLCVCVS SISSCIDPLI YYVASSECQR YVYSILCKE SSDPSSYNS GQLMASRMDT CSSNLNNSIY KKLLT</p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p>tagcttcaag ccactgaaga tggaaaaaga gacagtcagt gaactgaacc aaacacagct A tcagccacga cgaagtgtgg ccttagaata ccaggtggtc accatcttac ttgtactcat tatttgggc ctgggcatg taggcaacat catggtagtc ctggttgtca tgagaaccaa gcacatgag accccacaa actgtacct ggtgagcctg gcagtagctg atctcatggt cttgggtggc gcaggcctcc ccaacataac agacagatc tagggttctt ggggtctatgg</p>	Homo sapiens

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	<p>ctatgttgga tgcctctgca ttacttacct ccagtatattg ggaattaatg caticctcttg ttaaataaca gcctttacca ttgagagga catagcaatc tgtcacccca tcaaaagccca gtttctctgc acattttcca gagccaaaaa gattatcatc ttigtctctgg ctttcacatc tccttactgt atgctctggg tcttcttgct ggatctcaat attagcacct aaaaagatgc tattgtgata tccgtgtggc acaagatctc caggaattac tactcaccta ttacaccta ggacttttgt gtcttttatg ttgtgccaat gatcctggct accgtcctct atggattcat agctagaatc cttttcttaa atccattcc ttcatagctc aaagaaaact ctaagacatg gaaaaatgat tcaaccctc agaacacaaa tctgaatga aatacctcta atagatgttt caacagcaca gtatcttcaa ggaagcaggt caccaagatg ctggcagtggt ttgtaattct gtttgcccct ttatggatgc cctacaggac tctagtgtgt gtcaactcat ttctctccag tcctttccaa gaaaatttgt ttttgctct ttgcagaatt tgcatttato tcaacagtg catcaaccgc gtgatttaca atctcatgtc ccagaaatc cgtgcagcct tcagaaaact ctgcaactgc aagcagaagc caacagagaa acctgtctac tacagtgtgg ccttaaatga cagctcatc aaggagtcag accttttcag cacagagcct gatgatata ctgtcactga cacttacctg tctgccacaa aagtgtcttt tgatgacacc tctgtggctt ctgaggtatc cttagccaa agttgattca tgaattagaa gaaaatggat gacaaaagaa ttgagaatct gtgcagtcac caacaaaaag gagaacatgg ccaatagtca tatgtgaaga cagagcagat cagctcttgt caatgctcta acaaacccg</p>	Homo sapiens
.	327	Angiotensin II Type 1 Receptor	NM_000685	<p>LVLIICGLGI VGNIMVLV MTKHMRTP P ITYLQYIGIN ASSCSITAF T FELDLNIST YKDAIVISCG NPIPSDPKEN SKTWKNDSTH PYRTLVVNS FLSSPFQENW FRKLCNCKQK PTEKPANYSV ALNYSVIKES SEVSFSQS</p>	Homo sapiens

328	4944	Angiotensin II Type 1 Receptor	NP_000676.1	<p>gggctgggccc tgacacaaaa tatactgggt ttctctgttc cttttctgat cattcttaca agttatactc ttatttggaa ggccctaaag aaggcttatg aaattcagaa gaacaaacca agaaatgatg atatttttaa gataattatg gcaattgtgc ttttcttttt cttttccctgg attccccacc aaatattcac ttttctggat gtattgattc aactaggcat catacgtgac tgtagaattg cagatatgtt ggacacggcc atgcctatca ccatgtgatg agcttatttt aacaattgcc tgaatcctct tttttatggc tttctgggga aaaaattttaa agatatattt ctccagcttc taaaatatat tccccaaaa gccaaatccc actcaaacct ttcaacaaaa atgagcacgc ttctctacgc cccctcagat aatgtaagct catccacca gaagcctgca ccatgttttg aggttgatg acatgttcga aacctgtcca taaagtaatt ttgtgaaaga aggagcaaga gaacattcct ctgcagcact tcaactacca atgagcatta gctacttttc agaattgaag gagaaaatgc attatgtgga ctgaaccgac ttttctaaag ctctgaacaa aagcttttct ttcttttgc aacaagacaa agcaaaagcca cattttgcat tagacagatg acggctgctc gaagacaact gtcagaaact cgatgaatgt gttgatttga gaaattttac tgacagaaat gcaatctccc tagcctgctt ttgtcctgtt attttttatt tccacataaa ggattattaga atatatataa tcgttagagg agcaacagg gatgagagtt ccagattgtt ctgtccagtt tccaaaggcc agtaaaagttt tcgtgccggt ttccagctat tagcaactgt gctacacttg cacttggtac tgcacatttt gtacaaagat atgctaagca gtagctgtca agttgcagat ctttttgtga aattcaacct gtgtcttata ggtttacact gccaaacaaa tgcccgtaaag atggcttatt tgtataatgg tgttactaaa gtcacatata aaagtttaaac tacttgtaaa ggtgctgac tgggtcccaag tagtagtgc ctctagtagt attagtttga tttaatatct gagaaagtga tatagtttgt ggtaaaaaga ttatatatca taaagtatgc cttctgtttt aaaaaagta tatattctac acatatatat atatgtatat ctatatctct aaactgctgt taattgatta aaacttgcca aagttatatt tactttaaaa taaaaataatt ttattgc</p>	Homo sapiens
329	4946	Angiotensin II Type 2 Receptor	NM_000686	<p>TVASVFLNL ALADLCFLLT LPWAVYTAM EYRWPFGNYL CKIASASVSF NLYASVFLLT CLSIDRYLAI VHPKSRLLR TMLVAKVTCI IITWLLAGLAS LPALIHNRVF FIENITNITVC AFHYESQNST LPILGLTKN ILGLFPFLI ILTSYTLIWK ALKKAYEIQK NKPRNDDIFK IIMAIVLFFF FSWIPHQIFT FLDVLIQLGI IRDCRIADIV DTAMPITICI AYFNCLNPL FYGLGKKFK RYFLQLKYI PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE acgtccaccg gctctgagaga acgagtaagc aagaattcaa agcattctgc agcctgaatt A ttgaaggagt gtgttaggc actaagcaag ctgatttatg ataaactgctt taaacttcaa caacaaaagg cataagaact agagctgct gacatttcaa tatgaaggcc aactccacc ttgccactac tagcaaaaac attaccagcg gctctcactt cgggcttctg aacatctctg gcaacaatga gctacacttg aactgttcac aagaaccact agataagcat ttagatgcaa ttctatttct ttactacatt atatttgtaa ttggatttct ggtcaaatatt gtctgggta cactgttttg ttgtcaaaaag ggtcctaaaa aggtttctag catatacatc ttcaacctcg ctgtggctga ttactcctt ttggctactc ttctctatg ggcaacctat tattcttata gatatgactg gctctttgga cctgtgatgt gcaagtttt ttgttctttt ctaccctga acatgtttgc aagcattttt ttatatcact gcatgagtggt tgataggtac caatctgtca ttaccacctt tctgtctcaa agaagaatc cctgggcaagc atcttatata gttcccccttg</p>	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p>tttggtgtat ggccgtgttg tcttcattgc caacatttta ttttcagagac gtcagaacca</p> <p>ttgaatactt aggagtgaat gcttgcatat tggcttccc acctgagaaa tatgcccatt</p> <p>ggtcagctgg gattgacctt atgaaaaata tcccttggtt tattatccct ttaatatcca</p> <p>tagcaacatg ctatttttga attagaaaac acttactgaa gacgaatagc tatgggaaga</p> <p>acaggataac ccgtgaccaa gtcctgaaga tggcagctgc tgttgtctg gccttcata</p> <p>tttggtgctt tcccttccat gttctgacct tcttgacctg tctggcctgg atgggtgtca</p> <p>ttaatagctg cgaagtata gcagtcattg acctggcact tcccttttgc atccctcttg</p> <p>gattcaccaa cagctgcgtt aatccgtttc tgtattgttt tgttgaaaac cggttccaac</p> <p>agaagctccg cagtgtgttt agggttccaa ttacttggct ccaagggaag agagagagta</p> <p>tgtcttggcg gaaaagcagt tctcttagag aaatggagac ctttgtgtct taaacggaga</p> <p>gcaaaatgca tghtaatcaac atggctactt gctttgaggc tcaccagaat tatttttaag</p> <p>tggttttaat aaaaataata aatttccctt aatctttctt gaatcttctg aaaccaaag</p> <p>taactatgtt tatcgtccag tgaatttccag gaatgccccat tgttttctga tatgtttgta</p> <p>caagatttca ttggtgagac atatttaca cctagaagta actggtgata tatctcaaat</p> <p>tghtaattaat aatgattgtt gaataatgat ttggggattc agatttctct ttgaacatg</p> <p>cttgtgttct ttagtgggtt ttatatcca tttttatcag gatttctctt tgaaccagaa</p> <p>ccagtccttc aactcattgc atcatttaca agacaacatt gtaagagaga tgagcacttc</p> <p>taagttgagt atattataat agatttagtac tggatttattc aggttttagg catatgcttc</p> <p>tttaaaaacg ctataaatta taticctctt gcatcttcat tgagtgaggg tttatagtta</p> <p>agcttatttt tacagttata gaaagcaaga tgtactataa catagaattg caatctataa</p> <p>tatttgtgtg ttcactaaac tctgaataag cactttttaa aaaactttct actcatatta</p> <p>atgattgttt aaaggtttct atttctctg atactttttt gaaatcagta aacactgtgt</p> <p>attgttgtaa aatgtaagg tcacttttca catccttgac ttttttagatg tgctgctttg</p> <p>atatatagga cattgatttg atttttatta ttaatgcttt ggttctgggt tgttccctaa</p> <p>aatatctggg tggcttaaaa aaaactcttt aacttgtaat aaacctttaa ctggcatagg</p> <p>aatggtatc cagaatggaa ttttgctaca tggggctctg gtgggggcaa agagacccag</p> <p>tcaattacat gtttggtagc aagaaaggaa cctgtcaggg cagtacaatg tgactttgaa</p> <p>aatatatacc gtgggggtag ttttacccta tatctataaa cactgtttgt tccagaatct</p> <p>gtatgattct atggagctat tttaaaccaa ttgcaggtctc aga</p> <p>MKGNSTLATY SKNITSGLHF GLVNISGNNE STLNCQKPS DKHLDAIPIL YYIIFVIGFL P</p> <p>VNIWVVTLFC CQKPKKVSS IYTFNLAVAD LLLLATLPLW ATYYSRYDW LFGPVMCKVF</p> <p>GSFLTLMFA SIFITCMVS DRYQSVIYPF LSQRNPMQA SYIVPLWCM ACLSSLPTFY</p> <p>FRDVRTIEYL GVNACIMAF PEKYAOWSAG IALMKNILGF IIFLFIATC YFGRKHLK</p> <p>TNSYGNRIT RDQVLKMAA VLAFIWIWCL PFHVLTFLDA LAWMGVINSC EVIAVIDLAL</p> <p>PEAILLGFTN SCVNFPLYCF VGNRFQKLR SVFRVPIITWL QKRESMSCR KSSSLREMET</p> <p>FVS</p>	Homo sapiens
331	5072	Pyrimidinergic Receptor P2Y4	NM_002565	<p>atggccagta cagagtcctc cctgttgaga tccctaggcc tcagcccagg tccctggcagc A</p> <p>agtggagtgagg agctggactg ttggtttgat gaggatttca agttcatcct gctgcctgtg</p> <p>agctatgcag ttgtctttgt gctgggcttg ggccttaacg ccccaacctc atggctcttc</p> <p>atcttccgcc tccgaccctg ggatgcaacg gccacctaca tgttccacct ggcattgtca</p>	Homo sapiens

332	5072	Pyrimidine ic Receptor P2Y4	NP_002556.1	MASTESSLLR IFRLRPWDAT CSVLFLTCIS TTVLCHDTR LRLSLTIADV LDPVLYLLTG RADRL	SEVELDCWFD DTLYVLSLPT LRALRWGRPR SSAVMGLLFG FHITRTIYYL ARLLEADCRV AASSIALVSL PEDSSCRWAA TPQDSSCSTP	EDFKFILLPV LIYYAAAHNH WPFGEICKF VRFLFYWNLY LVVAGCLVFN LFFVTTSNKG GLMARLLYQP LPGSAQSSSR LNIVNVYKV TRPLASANSR	Homo sapiens	
333	5117	Vasopressin V1A Receptor	NM_000706	taattgcttg catccctgaa aacacagctt ccgatgacc accagagatt tgacaacctt ctgcaatga ctgaggcaat tgctcctgca tgcttgaaa gagctgaggg agagtaacgg ctttgagatt gacctgtgca gcaatgacga agatgtcccc ccgcatcccc aactccttaa tgtgaataca caaacatagg	tccagacagg cttctgcctc gagcatttcc gaaaggcagg aggaagcagg catgaacgga tgctattttt ccacggccac agataactgc ttgtgtctcg tctgcctccc tctgcctccc aggtggttgt tactccttag gatggccgct agtaaccaga atcaggcttt tccatagaga tccatggggc gcactgcatca taggaagaga	accttttacc tggagaaaa acattgtctt tccatttata tcaagtccag aagtggaaat tcacagaggg cgttctgacc tcccttcttc tcttcaccaa cagaggggct tcccagggcc gggagggttt tgctctttgt ggactcccc ggaccactgc aaccocagaa acactcccc tgagtgcgtt taggaagaga	tattaccttc gaaccaacac acttgatctt agacgcacag catctcaacg attactgaga tgatattttt aacaagtgca cttgtaaaat cgttaaaaca ccagctgttt tctttcctct tctgtccctt ccaccacaaa ggccaaattt atctagagaa caaaccccg cttccccgtc tagctcttta	Homo sapiens

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Homo
sapiens

336 5118 Vasopressin NP_000698.1 V1B Receptor
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TIIF

Homo
sapiens

337 5119 Vasopressin NM_000054 V2 Receptor
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				<p>LMMASTTSV PGHPSLPSLP SNSSQERPLD TRDPLLARAE LALLSIVFVA VALSNGLVLA P ALARRRRGH WAPIHVFIGH ICLADLAVAL FQVLPQAWK ATDRFRGPDA ICRVAVKYLQM VGMVASSYMI LAMTLDRHRA ICRPMLAYRH GSGAHWNRPV IAWAFSLLL SLPLFIFAQ RNVEGSGSVT DCWACFAEPW GRRTYVTWIA LMVFVAPTIG IAACQVLIER EIHASLVPGP SERPGRRRG RTGSPGEGA HVSAAVAKTV RMTLVIVVVY VLCWAPFFLV QLWAAWDPEA PLEGAPFVLL MLLASLNSCT NPWIYASFSS SVSSELSRL CCARGRTPPS LGPQDESCCT ASSSLAKDTS S</p>	
339	5133	Peropsin	NM_006583	<p>gaataagcct tcgataatta tgaaggggtg ttccgtatct tccctccaaa atgctaagaa A ataatttag caacagttca gactctaaaa atgaagatgg ctccgtcttt tcacagactg aacacaatat tgttgcaact tacttgatta tggcaggtat gataagttat atcagcaaca taatagtctt ggcctcttc attaagtaca aggaacttcg gacccccaca atgcaatta ttattaacct ggctgttact gatatagggg tcagtagcat tggctatccc atgtctgctg cctcagatct gtatggaagt tggaaaatttg gatacgcagg ctgtcaggtt tatgctggat tgaatatatt ttttggaaat gcaagcattg gattactcac ggtcgtggct gtggaccgat acctgacct ctgccttctt gacgtaggga gaagaatgac caccacact tacatcggct tgattctggg agcctggatc aatggcctgt ttggggcttt gatgcctatc atagggtggg ctagttatgc ccagatcct actggtgcta cgtgtacctt aaactggagg aaaaatgata gatcttttgt gtcttacacc atgacagtta ttgcgataaa ttttattgtg ccttgacag tgatgtttta ctgctattac catgtcacgc tatccattaa acatcacact accagtgact gcaatgagtc cctcaacaga gactgggtcag atcagataga tgtaacaaa atgtctgtga tcatgatctg catgtttctg gtggcatggt ccccttattc catcgtgtgc ttatgggctt cttttggtga ccaaaagaag attcctccc ccatggccat catagtcca ctgtttgcaa aatcttctac attctataac cctgcattt atgtgggttc taataaaaaa tticggaggg caatgcttgc catgttcaaa tgtcagactc accaaaact gctgtgaca agtattttac ccatggatgt atctcaaac ccattggctt ctggaagaat ctgaaataag agaaaaggac acgctatcaa aacactttag ttttttgaca atgcttttct tttaaatatg agccattta gatcaagtgc agacatggat catgttccta tgagagtgtga agctcctcaa gcacagctcg tgcttccgtt tgtgacctt gctgctgta ggtatgctt ctctgtgtcc tgatatatca acttattgct catctcctt gatgaattag gcatcagagg ttaagggtcc ctttcttct</p>	Homo sapiens

340	5133	Peropsin	NP_006574.1	ccctattatg gcatgcatta cactgtactg atgaccttta acttgccctg ctcc	Homo sapiens
341	5519	Brain-Specific Angiogenesis Inhibitor 1	NM_001702	<p> ggacttttag agccgttgct gccctctctg tcacctgaag cggggccctc tcccatocca A cccttgccc gccctccctg cccacccggg ccggccctgc ccgcccggg accctggcat gtcaagacct ggtccgccc tgcctgcca gcccgccgaa ccccgccggc ccgcccagct aggatgagg gccaggccc cgcgccggc cccgtctgga tccctgccc gctgctactg ctgctgctg tctgggacg ccgcccggg cgcgcccgg gagcagacg gggcccggg cccagccgt gcgccacgt ggtgcaggga agttctctg gctactctc cgcggccgc gtgttcccgg ccaacgcctc ggcgtgctc tggacgtac gcaaccggg cccgcccgc tacactctc acatgaagt ggccaaagg cccgtgccct gcagcggccc cggcccgtg cgcacctacc agttcgact cttctctgag tccacggca cctacctgg cgtggagagc ttcgacgagg tctgctggct ctgcgacccc tccgacccc tggccttct gcaggccagc aagcagttcc tgcagatgcg gcgccagcag ccgcccagg acgacgggct ccggcccgg gccggcccgc cgggcccacc cgacgacttc tccgtggagt acctggtggt ggggaaccgc aaccacagcc gtgcgcctg ccagatgctg tgcgcgtgc tggacgcgt tctggccggt agtcgcagct cgcacccctg cgggatcatg cagacccctc gcgctgctt gggcggcag gcggggcgcc ctgcccggg accctggcc ccccgccggg atgtctgct gagagatgcg gtggtggtg gccctgaaa ctgcctacc agcctgacc agfacccggg cgggacagcc gccacaggcg gctggaagct gtggtccctg tggggcgaat gcacgcggga ctgcccggg ggcctccaga cgcggacgcg cactgacctg cccgcgccg gcgtggagg cggcggctgc gagggggtgc tggaggaggg tgcagatgc acagatgcc ggcggcgcg ggcgtggg accagctccc ggagccagtc cctgcggtc ccccgccgag gtagccagc agccaggag gacgagctgc agcagtttgg gttcccagc cccacagacc gtagccagc agccaggag tggccccctg ggagcgtgtg ctccagcacc tgcggcagg gctggcagc ccgacacgc ttctgcgtg cctcctcta cagcagcag tgcagcggac cctgcgcga gcagcggctg tgcaacaaat ctgcccgtg cccagtgc atgtgctgg atgagtgtc gccctggagc ctctgctcca gcaacctg cgtggcttt cgggatacga cgcgcacctg caggcccccc cagtttggg gcaacccctg tgaggccctt gagaagcaaa ccaagttctg caacattgcc ctgtgccctg gccgggcagt ggatggaac cgcacagcgt ggtcagctg gacgcctgc tccgccagct gctcccagg ccgacagcag cgcacagctg aatgcaacg gccttccctac gggggtgcg agtgccagg ccactgggtg gagacccgag actgcttct gcagcagctgc ccagtggat gcaagtggca ggcctgggc tcatggggga gttgcagcgt cactgtgtg gctggcagcc agcagcggga gcgtgtctg tctggccct tcttcggggg agcagcctgc caggggcccc aggatgagta ccggcagtc ggcacccagc ggtgtccccg gccccatgag atctgtgatg aggacaact tgggtgctgt atctggaagg agacccagc gggagagggtg </p>	Homo sapiens

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342	5519	Brain-Specific Angiogenesis Inhibitor 1	NP_001693.1	MRGQAAAPGP WVILAPLILL FRANASRCRW TLRNPDP DEVLRLCDPS APLAFLOASK PSRAACQMLC RWDACLALGS AGGPENCLTS LTQDRGGHGA GVLEEGRQCN REACGPAGRT SPWSVCSTC GEGWQTRTRF DRTTRCP CSSTCGRGFR DRTTRCP ASCSQGRQOR TRECNGPSYG GAFECQHWVE GPQDEYRQCG EGIAYWEPPT YIRCVSIDYR NMTEIFRRA YYSPTPGDVQ NFVQILSNLL LSIHKLPASG VFSTGLTEAD EASVFWVGT LYRNLGSFLA NQTILWDET DVPSSAPPO MEKATLPSVT LIVGCGVSSL GOTQTRNKVM CTLVAFLHF PALVVAISVG FTKAKGYSTM DIGITDKLKE RAGASLWSSC VMVHCILRRE VQDAVKCRVV IAACRTATIT GTLKRP SLPE RDKAPKSSFV	ccccctccc agcagccccct gccccccaccg cccaatctgg agccggcacc cccagcctg gggatcccg gggagcctgc cgccatccg ggaccagca cggggcccg caccaagaac gagaatgctg ccacttgctc tggagctcc ctggagcggc ggaagtcggc gtatgcagaa ctggactttg agaagatcat gcacaccccg aagcggcacc aagacatgtt ccaggacctg aaccggaagc tgcagcacgc agcggagaag gacaagaggc tgctggggcc ggacagcaag ccgaaaaagc agcagacgac caacaagagc cctccggaga gcctccggaa agccacagg acgccccagt gggtagaaga ggaagtcggc cggctgagc cgtcgcgctt ggaagctcgc agcgtggagt gggagaggtc gggcgccacg atccccgctg tgggccagga catcatcgac ctccagaccg aggtctgagc gggctggcgg cgccacgca ctggccacg gagagggat gctgctccgc ccgctcctgc cgcagacggg cacagacagc ctgcgggca gcgggccagg ccgcacccc ggcctcaggc cgtcagacg gggccaggc acaggcccg cagtgcctgg accagagcca gatcaggac aggagcgcc cggccagcg ggcacaggc accagaggcc gaagtgctt cagactccg cctcctcgg cgagggcca gcgggcagat gggcgagcg ctgtggaccg tggacaggcc cagcggcggc agcgtcccg ggtaccgcc tgagctcctg ctgcggagga gctgcctgct tggcccgcc ggcctggcac cgtttttta acaccccat ccctcgggaa gcagccagct cccacacat tccagggcc tagggccctc ctagaccag gtggagggca cagccctcgg accctcatg cccacaggc caggactgag tccctccag gaagaagcag gggggaatct atttttctc tcttttctt tcttcaata aaaaagatta aaaaacccaaa aaaa	Homo sapiens
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343	5520	Brain-Specific Angiogenesis Inhibitor 2	NM_001703	GDGDFKLD SELSRAQEKALDTSYVILPTATATLRPKPK EEPKYSIHID QMPOTRLIHL STAPEASLPA RSPPSRQPPS GGPPEAPPAQ PPPPPPPPP PPQPLPPPP NLEPAPPSLG DPGEPAHPG PSTGPSTKNE NVATLSVSSL ERRKSYAEL DFEKIMYTRK RHQDMFQDLN RKLQHAEEKD KEVLGPDSPK EKQQTPNKRP WESLRKAHGT PTWVKLELP LQPSPLELRS VEWERSGATI PLVGQDIIDL QTEV	gcgcgcgag agagcgagg cctcgccct ccgcgcggt gcagctacct accctggccc A cgccagggt ccgacttag gtagggcaaa cttggcccc gtggcgccc ccgcccaggc cgccccccg cctgcttag gacggcgccc aggaatcca cagcagtgt acatgtgacg tcacactga cagtgcctc ctgtggcat ggtcagggt gtgcaggt cctggcacac tggctgtaac tccgcccc tctctccc tcagtaaac agattacgc ggtgacatgc ctcacagctg atcacgacac acgggatgg agagcaagag ttatggagaa tacaggttgg atgggcaagg gacataggat gacccagcc tgtccctct tactgtgt gattctgtcc ctgcgctgg ccaccgctt gaccccgcc ccagtgctt gctctgccc ggcctgggt gtgctctacg gggccttct gctgaggac ccttttcta ccacgccc ggtgctgctc tggaccctg agaaccctga ccccaaacg tactccctt acccgctt caaccgccc gagcaggtgt ggcacactt tggccccg ctgctgccc tggaccata cctggtcaac tttacctgcc tgggcttag ccccgaggag gcggtggccc agcgagatc agagtgggg cgccagaag aggagggc agagcgga aggggttg agctgtgcag cggctcaggc cctttacct tctgacct cgacaagaac ttctgacgc tgtgctgtc ggtgagccc tcgagggccc cggcctgtt gggcgccgt gccctagct tccgcttgt cagagttctg ctcatcaaca acaacaact tagccaatt accgtgtgt tgcctgccc ctgagtgag gagtggtgcc gcgctgccc cagggcctc ggtttgtc agccaggtc cagctgccc ggagagggc gggcggtc caccaccac acatctccag gccctcctc tggccacac ctgtccaatg cctggtgc cgggggccc gcccacctg ctgaggcca tttgacctg gggagcagca atgatctgt cacaaccgag atgagatag gtgagagcc ggaagaggaa ccgaaagtga aaaccagtg gccgaggtt cagatagc ctgggtata catggcgag acaggcgacc cggcggtga gtagtggtc cgtggagc tgtgttccc gacgtgtggg cagggtctg agtgcgga ccgtcctgt gtgtcctcc cctatggac cctgtgcagc gggcccctg ggggtcctg ggcctgcaac aattcagca cctgcccagt gcacggcgtg tgggaggagt ggggtcctg ggcctgtgc tcccgagct gggggcggg gtcccggagc cggatcgga cctgctgc ccccgagc ggcggcaag cctgcaggg tccgtagctg cagactaagc tctgagtat ggtgctgc ccggtggaag gccagtggtt agaatgggt ccctggggc catgctcc gctctgtgc aatgggacc aacagcgag ccggaagtgc agcgtggcg gccagcctt ggcacatgc accggtccc tcactgacac ccgggagtc agcaacctg agtgcccg cactatagc aagtggggc catggaatgc gtggagcctg tgtctaaaga cgtgtgacac aggtggcag cgcgcttc ccctgtgcca ggcacgggc acgagggct accctgcga gggcacccga gaggaggtga agcctgtag tgagaagagg tgtccagcct tccatgagat gtgagggat ggtacgtga tggatgatc gtggaagaa gagctgtg gtagatcat ctacaacaag tggccccga atgcctcag gtctgccagc cgcgctgt tctcagtc caaggcgt ggcactgt ggtgcccag cttgtctgc tgcactccc atgagtagc ctactgtat ctgtcacta gggagcacct ggccaaagg	Homo sapiens
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344	5520	Brain-Specific Angiogenesis Inhibitor 2	NP_001694.1	<p> cgcgcgacac ccagcgcccg ccaagtgcgc gagcagggg agcgagcgc gaccatgcct cgaccgtgc cgggtcttac catgaagatg ggctcccttg agcgaaagaa attacgggtat tcagacctgg accttgaggt gatgcacacc cggaaacggc attcagaact ctaccacgag ctcaaccaga agtccacac ttctgaccgc taccgagcc agtccacggc caagagggag aagcgtggga ggtgtctctc gggtggggcg gcgagcgga ggtgtgac cgataagccc agccctgggg agcgccccc cttgtcccaa ctagcgccgc atcagagctg gagcaccttc aaatctatga cactgggctc gctgcccccc aagccccgag aacggctgac tctgcacccg gcagcagcct ggagccccac agaaccacg gatggtgact tccagacaga ggtgtgagtg ccagctgga ctgcccactg catataaata tatatatctc tetattttca cactccactt tggaactacc caggagccag cgcctctcc' céctcccca gggctgggca gggagcgcc gtgactcag ccaggtggg ggagccggac atggctggc ctgggggtccc agggcccttc ctgtttctc agaggcccc cagccactgg aacccatctc tcagccacg ctagccgtcc ctgtcccggg ctggggaggg ggagggggaa cttgtgtgg aataaacttc actctgtgg MTFACPLLS VILSLRLATA FDPAPSA LAGVLGAF SIQDLFPTIA SGCSTLENP P DPTKYSLYLR FNREQVCAH FAPRLPLDH YLVNFTCLRP SPEEAVAQAE SEVGRPEEEE AEAAGLEIC SSGPFTFIH FDNFVQLCL SAFPSEAPRL LAPAALAFRF VEVLLINNN SSQFTCGVLC RWSECGRAA GRACGFAQPG CSCPEAGAG STTTSPGPP AAHTLSNALV PGGPAPPAEA DLHSGSNDL FTTEMRYGEE PEEPKVKTQ WPRSADEPGL YMAQTGDPA EWSFWSVCS LTCQGLQVR TRSCVSSPYG TLCSGPLRET RPNNSATCP VHGWEWGS WSLCSRSCGR GSRMRMTCV PPOHGGKACE GPELQTKLCS MAACPVEGQW LEWGPWGPCS TSCANGTQQR SRKCSVAGPA WATGTGALTD TRECSNLECP ATDSKWGPWN AWSLCSKTC TGWQRFRMC QATGTQGYPC EGTGEEVKPC SEKRCAPFHE MCRDEYVLM TWKAAAGEI IYNKCPNAS GSASRCLLS AQGVAYWGLP SEARCISHEY RYLVLISREH LAKQRMILAG EGMSQVVRSL QELLARRTY SGDLFVSVDI LRNVDTFKR ATYVPSADDV QRFQVWSFM VDAENKEKWD DAQVSPGSV HLLRWEDFI HLVDALKAF QSSLIVTDNL VISIQREPVS AVSSDITFPM RGRGMKDWV RHSEDRLEFLP KEVLSLSPG KPATSGAAGS PGRGPGGT PPGPGHSHQR LLPADPDESS YFVIGAVLYR TLGLILPPPR PPLAVTSRVM TVTVRPPTQP PAEPLITVEL SYIINGTDP HCASWDYSRA DASSGDMTE NCOTLETOAA HTRCQCQHL TFAVLAQPPK DLFILELAGSP SVPLVIGCAV SCWALLTLA IYAAFWRFIK SERSIILLNF CLSLASNIL ILVQSRVLS KGVCTMTAAF LHFFELSSFC WVLTEAWQSY LAVIGRMRTR LVRKRELCIG WGLPALWAV SVGFRTKGY GTSSYCWLSL EGGLLYAFVG PAAVIVLVNM LIGIIVFNKL MARDGISDKS KKQRAGSERC PWASLLPC: ACGAVPSPLL SSASARNAMA SLWSSCVLP LLALTMSAV LAMTDRRSVL FOALFAVENS AOGFVITAVH CFLRREVQDV VKCMQGVCR DESEDSPDSC KNGQLQLSD FEKDVDLACQ TVLFKEVNTC NPSTITGLS RLSLDEDEEP KSLVGPESG LSFSLPGNI LVPMAASPLG GEPPPPQEAN PVMCGEGGL RQLDLTWLRP TEPSEGDYD VLPRTLSLQ PGCGGGGGED APRARPEGTP RRAAKTVAHT EGYPSFLSVD HSLGLGPAY GSLQNPYGMT FQPPPTPSA RQVPEPERS RTMPRTVPGS TMKMSLERK KLRYSDDLDFE VMHTRKRHSE LYHELNQKFH TFDYRSQST AKREKRWSVS SGGAERSVC TDKPSPGERP SLSQHRRHQS WSTFKSMTLG SLPPKPRERL TELHRAAAWEP TEPPDGFQT EV </p>	Homo sapiens
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345	5521	Brain-Specific Angiogenesis Inhibitor 3	NM_001704	gataaacaac ttacagaggg caaatgacat aggatgaagg ctgttcgtaa cctgctgatt A tataatttt ccacctatct cctggttatg ttggattta atgtgccc agacttctg tgttcaactt tgggaagg agtcatttat gatactgatt ctgtaagtga aatgtttcct aaaaacttta caaactgcac ttggacgctg gaaatccag atcaaccaa atatagcatt tacctgaat ttccaaaa ggaacttagc tgcctaac ttcaactcct ggtttatcag tttgatcaat ttccocata aaaaataaag gatcttttaa gaaagaatca ttctataatg caactctgca attccaagaa tgccttcgtt ttctacagt atgataaaaa ttttattcaa atacgtcag tatttccaac taatttccca ggtattgaac aaggtcagcc caagccagtt tggttgccat aaatcttttt ttgagttttt ggtattgaac aaggtcagcc caagccagtt tggttgccat gtattatgta ctgtgttga gatctgctta aatcagaaa atgggagaac agaactcatgt gggatcatgt atacaaaatg cacctgacct caactgtgtg tgccttctga atgagcagac agagggctgc cagtcgctga tttgtttaa taactgtgtg tgccttctga atgagcagac agagggctgc ctgaccagg agtgcgcaac caccagatc tgccttctga atgagcagac agagggctgc cccaagaag aatttgaat gatggagat catcaatta aagtcagcg acctcgatct gttcatgaaa aaagggtccc tcaggaaaca gctgatgctg ctcaatttat ggcacaaact ggtgaatctg gtgtggaaga gtgtccccc ttgagcacat gttcgtttac ttgtgttcaa gggtgcagg tgcgaaccag aactgtgtga tcaacttacc ggcacacact cagcggccca ttaagagaat caagggttg caataacact gctctctgc cagtcacag agtatgggag gaatgtcac catgagttt atgttcattt acatgtgtgtc gggcccaaag aacaagaaca aggtcatgca cactcctca gtatggagga aggcgtgtgt aggcactga aacacatcat aagccttgta atattgctt ttgcccagtt gatggacagt ggaagagtgt gattcgtgtg agcagtgct cagtaactgt ctgaatggg actcagcaga gaagccggca gtgcactgca gctgcccag gaggctccga atgcagaggg ccatgggagc aaagcagaga ttgtataaac cctgaatgta cagccaatgg tcaatggaat cagtggggtc atggaggtgt ttgttccaa tcctgtgatg cgggctggga aaggcgaata aggcactgtc aggtgtcagt gataacaggg cagcaatgtg aaggaacggg cgaagaagt agaatgca gtgagcagc atgcccagca ccttatgaaa tatgccctga gattatctg atgtcagatg ttgggaaaaa aactccagca ggcgacttgg cattcaatca atgtcccctg aatgccacag gcaccactag cagacgctgc tctctcagtc ttcatggagt ggccttcttg gaacagccga gctttgcaag atgcatatca aatgagtaga gacacttgca gattcaatt aaagagcacc ttgtaagggt gcaagcgaatg ctggcagggt atggaatgtc ccaggtgacc aagacactgt tggatttaac tcagagaaaa aatctctatg caggcgatct tctgatgtct gtggagatcc tgagaaatgt gacagacaca tttaaaagg caagtacat cctgcatct gatgtgttc agacttctt tcaaatagtt agcaaccttc tagatgaaga aacaaggaa aatggggaag atgcacaaa gatttatcca gggtcaatag agttaaagca ggtgattgaa gatattatc acattgttgg aatggggatg atggacttcc agaattcata cttaattgact ggaatgttag ttgctagtag tcagaagcct cctgcagcct ctgttctaac agacatcaac ttbccaatga aagacggaa ggaatgggtt gactgggcaa gaaactcaga agatagggtg gtaattccaa aaagcatttt cactccggtg tcatacaaa aattagatga atcatctgta ttgttcttg gcgcagtcct atacaaaaac ttagatctaa tttggcccag tttagaaaat tatactgtca ttaattccaa aatcatctgt gtcacaataa ggccctgaacc caaaacaacc gatctgttc ttgagataga actagctcat	Homo sapiens
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Homo sapiens

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Brain-Specific
Angiogenesis
Inhibitor 3

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tllldltorkn fyagdlmvs eilrnvtddf krasyipasd gvqnfqivs nlldeenkek
wedaqqiypg sielmqvied fihivgmgm dfqnsylmtg nvvasiqklp aasvltidnf
pmkgrkgmvd warnsedrvv ipksiftvps skeldessv vlgaulyknl dlilptlrny
tvinskiivv tirpekttd sfleielahl angtnlpyvc lwddsktnes lgtwstqgck
tvltdashk clcdrlstfa ilaqqpreii messgtpsvt livgsglslc alitlavvya
alwryirser siilinfcls iissnililv gotqthnksi cttttaflhf fflasfcwvl
teamqsynav tskirtrlii krflclgwgl palvatsvg ftrtkygtgd hycwlslegg
llyafvgpaa avvlvnmvig llvfnklvsvr dgildklkh ragomsephs gltlkcackg
vvsttalsat tasnamaslw sscwvlpla ltwsavlam tdkrsilfqi lpfavfslqg
fvivmhcil rrevqdafrc rlrncqdpin adsssfpng haqimtdfek dvdiacrsvl
hkdigpcraa ttgtlsris lnddeekgt npeglstl pgnviskvi qoptglhmpm
smnelsnplc krenselrrt vylctddnir gadmdivhpq ermmedyiv mprssvnnqp
smkeskmi gmetlpherl lhykvnpefn mppvmdqfn mnleqhlapo ehmqnlpfer
rtavknemas elddnaglsr setgstisms slerrksrys dldefkvmht rkrhmelfqe
lnqkfqtlrdr frdipntssm enpapknpw dtfknpsyep hyttinvltdt eakdalelrrp
aewekclnlp ldvqegdfqt ev
gcagaccttg cttcatgagc aagctcatct ctggaacaaa ctggcaagc atctctgctg
gtgttcatca gaacagacac catggcagag catgattacc atgaagacta tgggttcagc
agtttcaatg acagcagcca ggaggagcat caagacttcc tgcagttcac caaggtcttt
ctgcccctga tgtacctggt ggtgtttgtc tgtgtctgctg tggggaactc tctggtgctg
gtcatatcca tcttaccga taagtgcag agcctgacgg atgtgttctt ggtgaaccta
ccctggctg acctgggtgt tgtctgcat ctgcccttct gggcctatgc aggcattccat
gaatgggtgt ttggccaggt catgtgcaag agcctactgg gcatctacac tattaacttc
tacagtccta tgtctatcct cactgcatc actgtggatc gtttcatgt agtgggttaag
gccaccaagg cctacaacca gcaagccaag aggatgagct ggggcaaggt caccagcttg
ctcatctggg tgatatccct gctgggtttcc ttgccccaaa ttatctatgg caatgtcttt

Homo sapiens

A

NM_006564

SIV/HIV
Receptor
BONZO

6031

347

348	6031	SIV/HIV Receptor BONZO	NP_006555.1	<p> aattcgcaca agctcatatg tggttaccat gacgaggcaa ttccactgt ggttcttgcc accagatga cactggggtt cttcttgcca ctgctacca tgattgtctg ctattcagtc ataatcaaaa cactgcttca tgcctggaggc ttccagaagc acagatctct aaagatcatc ttcctgggtga tggctgtgtt cctgctgacc cagatgcctt tcaacctcat gaagtctcatc cgagcacac actgggaata ctatgccatg accagcttcc actacacct catggtgaca gaggccatcg cataccttag ggcctgctt accctgctt tctatgctt tgcagcctg aagtttcgaa agaacttctg gaaacttctg aaggacattg gttgcctccc ttaccttggg gtctcacatc aatggaatc ttctgaggac aattccaaga ctttttctgc ctoaccacaat gtggaggcca ceagcatgtt ceagttatag gcttggccag ggttcgaga agctgctctg gaatttgcaa gtcatggctg tgcctcttgg atgtggtgag gcaggctttg ttatagctt gcgcattctc atggagaagt tatcagacac tctggctggt ttggaatgct tcttctcagg catgaacatg tactgttctc ttcttgaaac ctcatgctga agcccaagt aggggtctta aaatttttaa ggaacttctc tctccatct ccaagaatgc tgaacccaag ggggatgaca tgtgactcct atgatctcag gttctccttg attgggactg gggctgaagg ttgaagaggt gagcacggcc aacaaagctg ttgatggtag gtggcacact ggtgcccac gctcagaagg ctcttctgac tactgggcaa agagtgtaga teagagcagc agtgaacaca agtgcctggca ccaccaggca cctcacagaa atgagatcag gctctgctc accctggggc ttgacttttg tataggtaga tgttcagatt gcttgatta atccagaata actagcacca gggactatga atgggcaaaa ctgaattata agaggctgat aattccagtg gtccatggaa tgcctgaaaa atgtgcaaaa cagcgtttaa gactgtaatg aatctaagca gcaatttctga agtgactctt ttggtggctt tgcattttta aatgaaat ttccaatgtc tgcacacaa acgtatgtaa atgtatatc ccacacacat acacacatat gtcatatat actagcatat gagtttcata gctaagaaat aaaactgtta agtctccaa act </p>	Homo sapiens
349	6204	Lysophosphatidic Acid Receptor Edg4	NM_004720	<p> gcccagatgg tcatcatggg ccagtgtctac tacaacgaga ccactggctt cttctataac A aacagtggca aagagctcag cteccactgg cggcccaagg atgtggtcgt ggtggcactg gggctgaccg tcagcgtgct ggtgctgctg accaatctgc tggatcatagc agccatcgcc tccaaccgcc gcttcacca gccatctac taactgtctg caaatctggc cgcggctgac ctcttcgctg cgttgcccta cctctctc atgttcaca tgggtcccc cagagcccg ctttcacttg agggctgggt cctgcggcag ggttgcctg acacaagcct cactgcgtcg gtggccacac tctggccat cgcggtggag cggcacccga tgtgatggc cgtgcagctg cacagccgcc tgcctcgctg ccgctgggtc atgctcattg tggcggtgtg ggtggctgcc ctgggctctg ggcgtgctgc tgcctactcc tggcactgcc tctgtgccct ggaccgctgc tcaecgatgg caccctgct cagcgtctc tatttggccg tctgggctct gtcgagcctg cttgctctcc tgcctatggt ggtgtgtac accgcattt tcttctacgt ggcggcgcca gtgcagcgca tggcagagca tgtcagctgc caccctcgct accgagagac cagctcagc </p>	Homo sapiens

350	6204	Lysophosphat idic Acid Receptor Edg4	NP_004711.2	<p>ctggtcaaga ctgttgtcat catcctgggg gogttcgtg tctgctggac accaggccag gtggtactgc tctggatgg tttagctgt gagtccctga atgtccctggc tgtagaaaaa tacttccctac tgttgccga ggccaactca ctggtcaatg ctgctgtgta ctcttgccga gatgctgaga tgcgccgcac ctccgccgc ctctctgct ggcgctgct ccgccagtc accgcgagt cbgtccacta tacatcctct gccacgggag gtgccagcac tgcacatg cttcccagaga acggccacc actgatggac tccacccttt agctacattg aacttcagc gtacgcggca agcaacaat ccacagcccc tgatgacttg tgggtgctcc tggctcaacc caaccaacag gactgactg</p>	Homo sapiens
351	6213	C-C Chemokine Receptor 5	NM_000579	<p>cttcagatag attatatctg gactgaagga tctgccacc tacgtatctg gcatagtatt A ctgtgtagtg gtagtagcag agaaacaaaa caaataatc cagtgaagaa agcccgtaaa taaaccttca gaccagagat ctattctcca gcttatttta agctcaactt aaaaagaaga actgttctct gattcttttc gcttcaata cacttaata tttaactcca cctccttca aaagaacacg cattcctac ttttatactg tctatatgac tgatttgac agtccatctg gccagaagag ctgagacatc cgttccctca caagaaactc tccccgggtg gaacaagatg gattatcaag tgtcaagtcc aatctatgac atcaattatt atacatcgga gccctgcca aaaatcaatg tgaagcaat cgcagccgc cctcgtcctc cgtctactc actggtgttc atctttggtt ttgtgggcaa catgtgtgtc atctcatcc tgataaacatg caaaaggctg aagagcatga ctgacatcta cctgctcaac ctggccatct ctgacctgtt ttctcttctt actgtccctt tctgggctca ctatgtgctc ttttataggc gccagtggtg aacttgaaa tacaatgtg caactcttga cagggtctca ttttataggc ttcttctctg gaattcttct catcactcctc ctgacaatcg ataggtaact ggtgtgtgtc catgtgtgtg ttgcttttaa agccaggacg gtcacctttg ggtggtgac aagtgtgac actgggtgtg tggctgtgtt tggctctctc ccaggaatca tctttaccag atctcaaaa gaaggtcttc attacacctg cagctctcat tttccataca gtacagtatca attctggaag aatttccaga cattaaagat agtcatcttg gggtggtgtc tgcgctgct tgtcatggtc atctgtact cgggaatcct aaaaactctg cttcggtgtc gaaatgagaa gaagggcac aggtctgtga ggttatctt caccatcatg attgtttatt ttctcttctg ggtccctac aacattgtcc ttctctgaa cacttccag gaattctttg gctgaataa ttgcagtagc tctaacaggt ttgaccaagc tatgcaggtg acagagactc ttgggatgac gcaactgtgc tcaacccca tcatctatgc ctgttgcggg gagaagtcca gaaactacct cttagtcttc ttcaaaaagc acattgcca acgttctgc aaatgctgtt ctattttcca gcaagaggct ccgagcgag caagctcagt ttacaccca tccactgggg agcaggaat atctgtgggc ttgtgacacg gactcaagtg ggtggtgac ccagtcagag ttgtgcacat ggttagttt tcatcacag cctgggtctg ggtgggtg ggagaggtct ttttaaaaag gaagtactg ttatagaggg tctaagattc atccatttat ttggcatctg ttttaagtag attagatctt ttaagcccat caattataga aagccaaatc</p>	Homo sapiens

352	6213	C-C	NP_000570.1	MDYQVSSPIY DINYTSEPC QKINVQIAA RLPLPLYSLV FIFGVGNML VILILNCKR P	Homosapiens
		Chemokine		gacaaactct ccttcactc egaaagttcc ttatgtatat ttacacatgca tcaagttatt	
		Receptor	5	attgctgatt cttgagttta tggatctgaa cagaaataacc aaaattattt cagaaatgta	
				caacttttta cctagtacaa ggcaacatat aggttgtaaa tgtgtttaaa acaggtcttt	
				gtcttgctat gggagagaaa gacatgaata tgaattagtaa agaaatgaca cttttcatgt	
				gtgattttccc cccaaggta tggtaataa gtttcacata cttagaacca ggcgagagac	
				ttgtggccctg ggagagctgg ggaagcttct taaatgagaa ggaatttgag ttggatcatc	
				tattgctggc aaagacagaa gcctcactgc agcactgca tgggcaagct tggctgtaga	
				aggagacaga gctggttggg aagacatggg gaggaaaggac aggcctagat catgaagaac	
				cttgacggca ttgctccgtc taagtcata gctgagcagg gagatcctgg ttggtgttgc	
				agaaggttta cctgttggcc aaaggagggt caggaaggat gagcatttag ggcaaggaga	
				ccaccaacag cctcaggtc aggtgagga tggcctctgc taagctcaag gcgtgaggat	
				gggaaggagg gaggtattcg taaggatggg aaggagggag tattcctgc agcatatgag	
				gatgcagagt cagcagaact ggggtggatt tgggttggaa gtgagggta gagaggagtc	
				agagagaatc cctagtcttc aagcagattg gagaaccct tgaagaagaca tcaagcacag	
				aaggaggagg aggggttta ggtcaagaag agatggatt ggtgtaaaag gatgggtctg	
				gttgcagag cttgaacaca gtctcaccga gactccaggc tgtctttcac tgaatgcttc	
				tgacttcata gattccttc ccattccagc tgaataactg aggggtctcc aggaggagac	
				tagatttatg aatacacgag gtatgaggtc taggaacata cttcagctca cacatgagat	
				ctaggtgagg attgattacc tagtagtcat ttcatgggtt ttggggagga ttctatgagg	
				caaccacagg cagcatttag cacatactac acattcaata agcatcaaac tcttagttac	
				tcattcagg atagcactga gcaagcatt gagcaagggt gtccatata ggtgagggaa	
				gcttgaaaaa ctaagatgct gctgcccag tgcacacaa ggtagggtatc atttctgca	
				tttaaccgtc aataggcaaa ggggggaagg gacatatcca ttgggaaata agctgccttg	
				agccttaaaa' cccacaaaag tacaatttac cagctccctt agtcagact gaatgggggt	
				ggggggggcg ccttaggtac ttattccaga tgccttctcc agacaaacca gaagcaacag	
				aaaaaatcgt cctccctcc ctttgaaatg aatatacccc ttatgtgttg ggtatatcca	
				tttcaaaagg agagagagag gtttttict gtcttctc atatgattgt gcacatactt	
				gagactgtt tgaatttgg ggatggctaa aaccatcata gtacaggtaa ggtgagggaa	
				tagtaagtgg tgagaactac tcagggaatg aaggtgtcag aataataaga ggtgctactg	
				actttctcag cctctgaata tgaacggta gcattgtgc tgtcagcagg aagcaacgaa	
				gggaaatgct ttctctttg ccttaagtt gttgagagtg caacagtagc ataggaccct	
				accctctggg ccaagtcaaa gacattctga catcttagta ttgtcatatt cttatgtatg	
				tgaaggttac aaattgcttg aaagaaaaa tgcattcaat aaaaaacacc ttcta	
				LKSMFDIYLL NLATSDLFFL LTVPFWAHYA AAQWDFGNM CQLLTGLYFI GFSGIFFII	
				LLTIDRYLAV VHAVFALKAR TVTGVVTSV ITWVAVFAS LPGIIFTRSQ KEGLHYTCSS	
				HFYYSQYQFW KNFQILKIVI LGLVPLLM VICYSGILKT LLRCRNEKKR HRAVRLIFTI	
				MIVYFLFWAP YNIVLLINTF QEFFGLNCS SSNRIDQAMQ VTETIGMTHC CINPIIYAFV	
				GEKFRNYLLV FFQKHAKRF CKCSIFQQE APERASSVYT RSTGEQEISV GL	

353	6363	Chemokine (C-C motif) Receptor- like 2 (CCR2)	NM_003965	<p>tctgtctgtg ggaagtggg cacacgttaa aagaaatgtt tatttcagtc ttctgaaata A</p> <p>gggaattact ctggctaaaa ttagcttcca gaaagggaag gtggggtgtg atgaatccag</p> <p>gtccagtttg ttgtttcttc caggataaag cagctgtcgg aggggaaaa catctcccat</p> <p>ttctccacag ggcagttctga agatggccaa ttacacgctg gcaccagagg atgaatatga</p> <p>tgctctcata gaagtgaac tggagagcga tgggagcag caatgtgaca agtatgaagc</p> <p>ccaggcacat teagccagg tgggtccatc actctgtctc gctgtgttg tgatcggtgt</p> <p>ctgggacaat ctctgggttg tggctatcct ggtaaaaat aaaggactca aacgcgtgga</p> <p>aaatatctat ctctaaaa ctggcagttc taactgtgt ttcttgctta cctgcccc</p> <p>ctgggtctat gctggggggg atcccatgtg taaaattctc attggactgt acttcgtggg</p> <p>ctgttacagt gagacatttt tcaattgctt tctgactgtg caaagggtacc tagtgttttt</p> <p>gcacaaggc aactttttct cagccaggag gaggtgtccc tgtggcatca ttacaagtgt</p> <p>cctggcatgg gtaacagcca ttctggccac ttgctctgaa tctgtggttt ataaacctca</p> <p>gatggaagac cagaaataca agtgtgcatt tagcagaact ccttctctgc cagctgatga</p> <p>gacattctgg aagcattttc tgactttaaa atgaacatt tcggttcttg tcttcccc</p> <p>attatttttt acatttctct atgtgcaaat gagaaaaa ctaagggttca gggagcagag</p> <p>gtatagcctt ttaagcttg ttttggccat atgtgtagtc ttcttctga tgtggcgcc</p> <p>ctacaattt gcatttttcc tgtccacttt caaagaacac ttctccctga gtgactgcaa</p> <p>gagcagctac aatctggaca aaagtgttca catcactaaa ctcactgcca ccaccactg</p> <p>ctgcatcaac cctctctctg atgcgtttct ttagtggaac tttagcaaat accctgtccg</p> <p>ctgtttccat ctgcttagt acaacccact tcaacccagg gggcagcttg cacaaggcac</p> <p>atcgagggaa gaacttgacc attccaccga agtgtaaac agcatccacc aaatgcaaga</p> <p>agaataaaca tggattttca tcttctgca ttatttcatg taaattttct acacatttgt</p> <p>atacaaaatc ggatacagga agaaaaggga gaggtgagct aacatttgc agcactgaa</p> <p>ttgtctcag gcaccgtga agctcttta caaacgtgag cctcttgcg tctaccact</p> <p>tgctcatagt gtgatatga ctagtctcat ttctctgaga agaaaactaa ggcgcggaaa</p> <p>ttgtctaaag atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt</p> <p>tgctcagagc ctacgcttg tccagaacat caaactcaa accctggga caaacgacat</p> <p>gaaataaatg tatttaaaa catct</p>	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCR2)	NP_003956.1	<p>LILVKYKGLK RVENIYLINL AVSNLCFLLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF</p> <p>NCLLTVQRYL VFLLKGNFFS ARRRVPCGII TSVLAWVTAI LATLPEYVYVY KPQMEDQKYK</p> <p>CAFSRTPLP ADETFWKHFL TLKMNISVLV LPLFIPTFLY VQMRKTLRFR EQRYSLEFLV</p> <p>FAIMVVELIM WAPYNIAFFL STFXEHFSLS DCKSSYNLDK SVHTKLIAT THCCINPLLY</p> <p>AFLDCTFSKY LCRCFHLRSN TPLQPRGQSA QGTSREEPDH STEV</p>	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302	<p>atgcgagccc cgggcgcgct tctgcgccg atgtcgcggc tactgcttct gctactgtctc A</p> <p>aagtggtctg cctcttctgc cctcggggtc gccctgcgt ccagaaacga aacttgtctg</p> <p>gggagagct gtgcacctac agtgatccag cgcgcgggca gggacgcctg gggaccggga</p> <p>aattctgcaa gagacttct gcgagcccg gcacccagg aggagcagg ggcagcgttt</p> <p>cttgccgggac cctctggga cctgcggcg gccccgggc gtgaccggc tgagggcaga</p> <p>gggcccagg cgtcggcag cggaccccc ggactccaa ccaggccacc tggccccctg</p> <p>aggtaggaaa gtgctcggg tcaggagcct tctgaaactt tggggagagg gaacccacg</p>	Homo sapiens

[illegible]

Homo sapiens

360	6777	G Protein- Coupled Receptor TM7SF1	NP_003263.1	MRPERPRRG SAPGPMETPP WDPARNDSLP PTITPAVPPY VKLGLTVVYT VFVALLFVFI P YVQLWLVLRY RHKRLSYQSV FLFLCLFWAS LRTVLFSEFYF KDFVAANSLS PFVFWLLYCF PVCLOFFTLT LMNLYFTQVI FKAKSKYSPE LLKYRLPLYL ASLFLSLVFL LVNITCAVLV KTGNWERKVI VSVRVAINDT LFLKCAVSLS ICYKISKMS LANIYLESKG SSVCQVTAIG VTVILLYTSR ACYNLFILSF SQNKSVHSFD YDMYNVSDQA DLKNQLGDAG YVLFQVVLV WELLPTTLV YFFRVNPTK DLTPNGMVP HSFSRPSYFF DNPRRYDSD DLAWNIAPOG LQGFAPDY DWGQNTNSFL AQAGTLQDST LDPDKPSLG atggatcgag gtgccaaagtc ctgccctgcc aacttcttg cagctgccga cgacaaactc A agtgggttcc agggggactt cctgtggccc atactgtgtg ttgagttcct ggtggccgtg gccagcaatg gccctggcct gtaccgcttc gtaccgcga agcagcgcctc atggcaccctc gccgtggtct tctctgtcca gctggcagtc agcagcctgc tctgcgtct gacgtgccc ccgtggccg cctacctcta tcccccaag cactggcgt atggggaggc cgtgtgccg ctggagcgt tctcttcac ctgcaacctg ctgggcagcg tcatcttcac cacttgcatc agcctcaacc gctacctggg catcgtgcac ccttctctcg ccggaagcca cctgcgaccc aagcacgct ggccgtgag cgtgcccg cgtgcccg tgggtcctg ccgccctgct ggcctgccc acctcagct tctccacct gaagaggccg cagcaggggg cgggcaactg cagcgtggcc aggcccgagg cctgcatcaa gtgtctggg acagcagacc cgggctgct ggcctacaga gcgtatagcc tgggtctggc ggggttggc tgcggcctgc cgtgctgct cactgtgga gcctacggcg cctcggcg ggcctgtgta cgcagcccag gcatgactgt ggcgagaag ctgcgtgtg cagcgtgtgt ggcagtggt gtcggcctct agccagctc ctatgtgcc taccacatca tgggggtgt caactggat gctcggcg gctggagcac ccgtgccc agctttgcag acatagcca ggcacagca gccctggag gccggcccta cgtgggctac cagtgatgc gggccctcat gccctggcc tctgtgtct acccttact ctacatggcc gcagtggcca gccctggctg ctgctggca cactggccc gctacaggga cagctggaa ccagaggacg ccaagagcac tggccaagcc ctgcccctca atgccacagc cgcccctaaa ccgtcagagc ccagctccg tgaagtgc caatga cgtcagagc ccagctccg tgaagtgc caatga	Homo sapiens
361	6853	Purinergic Receptor P2Y11	NM_002566	atggatcgag gtgccaaagtc ctgccctgcc aacttcttg cagctgccga cgacaaactc A agtgggttcc agggggactt cctgtggccc atactgtgtg ttgagttcct ggtggccgtg gccagcaatg gccctggcct gtaccgcttc gtaccgcga agcagcgcctc atggcaccctc gccgtggtct tctctgtcca gctggcagtc agcagcctgc tctgcgtct gacgtgccc ccgtggccg cctacctcta tcccccaag cactggcgt atggggaggc cgtgtgccg ctggagcgt tctcttcac ctgcaacctg ctgggcagcg tcatcttcac cacttgcatc agcctcaacc gctacctggg catcgtgcac ccttctctcg ccggaagcca cctgcgaccc aagcacgct ggccgtgag cgtgcccg cgtgcccg tgggtcctg ccgccctgct ggcctgccc acctcagct tctccacct gaagaggccg cagcaggggg cgggcaactg cagcgtggcc aggcccgagg cctgcatcaa gtgtctggg acagcagacc cgggctgct ggcctacaga gcgtatagcc tgggtctggc ggggttggc tgcggcctgc cgtgctgct cactgtgga gcctacggcg cctcggcg ggcctgtgta cgcagcccag gcatgactgt ggcgagaag ctgcgtgtg cagcgtgtgt ggcagtggt gtcggcctct agccagctc ctatgtgcc taccacatca tgggggtgt caactggat gctcggcg gctggagcac ccgtgccc agctttgcag acatagcca ggcacagca gccctggag gccggcccta cgtgggctac cagtgatgc gggccctcat gccctggcc tctgtgtct acccttact ctacatggcc gcagtggcca gccctggctg ctgctggca cactggccc gctacaggga cagctggaa ccagaggacg ccaagagcac tggccaagcc ctgcccctca atgccacagc cgcccctaaa ccgtcagagc ccagctccg tgaagtgc caatga cgtcagagc ccagctccg tgaagtgc caatga	Homo sapiens
362	6853	Purinergic Receptor P2Y11	NP_002557.1	MDRCAKSCPA NFLAAADKL SGQGDFLWP ILVVEFLVAV ASNGLALYRF SIRQRPWHP P AVVFSVLAV SDLICALTLPLAAYLYPPK HWRYGEACR LERFLFTCNL LGSVIFITCI SLNRYLGIVH PPFARSHLRP KHAWAVSAG WVLAALLAMP TISFSLKRP OOGAGNCSVA RPEACIKCLG TADHGLAAYR AYSILVLAGL CGPLLLTLA AYGALGRAVL RSPGMTVAEK LRVAALVAG VALYASSYVP YHIMRVINVD ARRWSTRCP SEADIAQATA ALELGPYVGY	Homo sapiens

363	6921	G Protein- Coupled Receptor GPR39	NM_001508	QVMRGLMPLA FCVHPLLMA AVPSLGCCCR HCPGYRDSWN PEDAKSTGQA LPLNATAAPK PSEPQSRRLS Q	atggcttcac ccagcctccc gggcagtgac tgcctccaaa tcattgatca cagtcattgtc A cccgagtttg aggtggccac ctggatcaaa atcacccctta ttctggtgta cctgatcatc ttcgtgatgg gctctctggg gaacagcgc accattcggg tcaccacagt gctgcagaag aaaggatact tgcagaagga ggtgacagac cacatggtga ttctggtctg ctcgacacac ttggtgttcc tcatcgccat gcccatggag ttctacagca tcatctggaa tccctgacc acgtccagct acaccctgtc ctgcaagctg cacactttcc tcttcgagg ctgcagctac gtacgctgc tgcactgtct gacactcagc tttagcgtct acatcgccat ctgtcacccc ttcaggtaaca aggtgtgtc gggaccttgc caggtgaagc tgctgattgg ctctgcttgg gtcacctccg cctgtgtggc actgccccttg ctgtttgcca tgggtactga gtacccccg gtgaacgtgc ccagccaccg ggttctcact tgaacccgtc ccagcacccg ccaccacag cagcccgaga cctccaatat gtccatctgt accaacctct ccagccgtg gccgtgttc cagtcagca tcttcggcgc cttcgtgtgc tacctcgtgg tctgtcttc cgtagccttc atgtgtgga acatgatgca ggtgctcatg aaaagccaga agggctcgtc ggcgggggc acggggcctc cgcagctgag gaagtccgag agcgaagaga gcaggaccgc caggaggcag accatcatct tctgaggtc gattgtgtg acattggcgc tatgtggat gccaaaccag attcggagga tcatggctgc ggcacaccc aagcacgact ggacgaggtc ctacttcgg ggtacatga tctctctccc cttcgtggag agttttttct acctcagctc ggtcatcaac cctgtcctgt acacgtgtc ctcgacagc ttctggcggg tgttcgtgca ggtcgtgtc tgccgcctgt cgtgcagca cgcacacac gagaagcgc tgcgcgtaca tgcgcactcc accacagaca ggcgcgctt tgtgcagcgc cgttgcctc tgcgtctccc gcgccagtcc tctgcaagga gaactgagaa gattttctta agcacttttc agagcgagge cgagccccag tctaaatccc agtcattgag tctcagatca ctagagccca actcaggcgc gaaaccagcc aatctgtctg cagagaatgg ttttcaggag catgaattt ga	Homo sapiens
364	6921	G Protein- Coupled Receptor GPR39	NP_001499.1	MASPSLPGSD CSQIDHSHV PEFVATWIK ITLILVYLII FVGLLGNSA TIRVTVLQK P KGYLQKEVTD HMYSLACSDI LVFLIGPME FYSIIWNPLT TSSYTLCKL HTLFEACSY ATLHLVLTLS FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHHE QPETSNSIC TNLSSRWTFV QSSIFGAFV YLVVLLSVAF MCWNMMQVLM KSQKSLAGG TRPQLRKSE SESRTARRQ TIFLRLIV TLAVCWMPNQ IRRIMAAKP KHDWTRSYFR AYMLLPFE TFFYLSVIN PLYTVSSQ FRRVTVQVLC CRLSIQHANH EKRLRVHAHS TTDSARFVQR PLLFASRRQS SARTEKIFL STFQSEAEPO SKSQSLSLES LEPNSGAKPA NSAAENGFOE HEV	aatctgtctg cagagaatgg ttttcaggag catgaattt ga MASPSLPGSD CSQIDHSHV PEFVATWIK ITLILVYLII FVGLLGNSA TIRVTVLQK P KGYLQKEVTD HMYSLACSDI LVFLIGPME FYSIIWNPLT TSSYTLCKL HTLFEACSY ATLHLVLTLS FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHHE QPETSNSIC TNLSSRWTFV QSSIFGAFV YLVVLLSVAF MCWNMMQVLM KSQKSLAGG TRPQLRKSE SESRTARRQ TIFLRLIV TLAVCWMPNQ IRRIMAAKP KHDWTRSYFR AYMLLPFE TFFYLSVIN PLYTVSSQ FRRVTVQVLC CRLSIQHANH EKRLRVHAHS TTDSARFVQR PLLFASRRQS SARTEKIFL STFQSEAEPO SKSQSLSLES LEPNSGAKPA NSAAENGFOE HEV	Homo sapiens
365	7221	Galanin Receptor GalR2	NM_003857	ggacaggtgc ccggggagct tcccgtcgc gaagacccag acggctgcag gagccgggc A agcctcgggg tcagcgccac catgaacgtc tccggctgcc caggggcccg gaacgcgagc caggcggggc ggcggggagg ctggcacccc caggcggtca tccgtccccct gctcttcgcy ctcatcttcc tctgtggcac cgtgggcaac acgtggtgc tggcggtgct gctgcgcggc ggccagggcg tcagcactac caactgttc atcctaac tggcggtggc cgaactgtgt tctatcctgt gctcgtgcc cttcagggc acctactaca cctggacgg ctgggtgttc ggctcgtgc tbtgcaaggc gbtgcacttc ctactcttc taccatgca cgcacgagc ttcacgctgg ccgcgcttc cctggacagg tatctggcca tccgtaccc cgtgcactcc	ggacaggtgc ccggggagct tcccgtcgc gaagacccag acggctgcag gagccgggc A agcctcgggg tcagcgccac catgaacgtc tccggctgcc caggggcccg gaacgcgagc caggcggggc ggcggggagg ctggcacccc caggcggtca tccgtccccct gctcttcgcy ctcatcttcc tctgtggcac cgtgggcaac acgtggtgc tggcggtgct gctgcgcggc ggccagggcg tcagcactac caactgttc atcctaac tggcggtggc cgaactgtgt tctatcctgt gctcgtgcc cttcagggc acctactaca cctggacgg ctgggtgttc ggctcgtgc tbtgcaaggc gbtgcacttc ctactcttc taccatgca cgcacgagc ttcacgctgg ccgcgcttc cctggacagg tatctggcca tccgtaccc cgtgcactcc	Homo sapiens

Homo
sapiens

366 7221 Galanin Receptor GalR2 NP_003848.1
 367 7246 Orexin Receptor 1 NM_001525

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 NLFILNLGVA DLGFIILCCVP FQATYITLDG WFGSLICKA VHFLIFLTMH ASSFTLAAVS
 LDYLAIRYP LHSRELTPR NALAAIGLIW GLSLFSGPY LSYRQSLA NLTVCHPAWS
 APRRRAMDIC TFVFSYLLPV LVGLTYART YALRILSHLV SYANSCVNPI VYALVSKHFR
 VAAFLCLWM PHHALILCVW FGQFPLTRAT YALRILSHLV SYANSCVNPI VYALVSKHFR
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 PCILEPCPG SWQPKAGDS ILTVDA
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Homo
sapiens

368	7246	Orexin Receptor 1	NP_001516.1	MEPSATPQAG MGVPVPSREP SPVPDYDEDE FLRYLWRDYL YPKQYEWVLI AAYVAVFWVA P LVGNTLVCLA VWRNHMRVT TNYFIWNLSL ADVLTAICL PASLLVDITE SWLFHALCK VIPYLAQVSV SVAVLTLSFI ALDRWYAICH PLLEFKSTARR ARGSLIGIWA VSLAIMVPOA AVMECSSVLP ELANTRILFS VCDERWADDL YPKIVHSCFF IVTYLAPLGL MAMAYFQIFR KLWGRQIPGT TSALVRNWK RPSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAQML MVLLVFLALC YLPISVINVL KRVTGMRFOA SDREAVYACF TFSHLVLYAN SAAPILLYNF LSGKFRREQFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVVLTSV TTVLP	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct tcagctgagc cggacgtagc tttctctccc tgggtgctatt A gctgcagcct ccagtgccgg gtccttagtt cctcagctgc ctatcttccc ggtgcaacat cgctgtataa gacagcaaaag ccacgcgaga agttgcccg cagaagactc cggaggcatt ggctcagtaa ctttccagct catttctgc tcgggagccc cttctagcct tccgcgcag cctttccac cgcaaatcac cagtgcctcat ggagcagcg gagagagct tgcagcattg agcggaaacg gacttgagcc cgtgatgtcc ggcaccaaat tggaggactc cccccctgt cgcaactggt catctgttc ggagctgaat gaaactcaag agccctttt aaacccacc gactatgacg acgaggaatt cctgaggtag cgtggaggg aatacctgca ccgaaagaa tatgagtggg tcctgatcgc cgggtacatc atcgtgttcg tcgtggtctc cattgggaac gtcctgggtt gtgtggcagt gtggagaac caccacatga ggacggtaac caactacttc atagtcacatc tttctctggc tgatgtgttc gtgacatca cctgcttcc agccactg gtcgtggata tcaactgagac ctgggttttt ggacagtcctc tttgcaaatg gattccttat ctacagaccg tgcgtgtgtc tgtgtctgtc ctacacatga gctgtatcgc cttggatcgg tggtatgcaa tctgtcacc tttgatgtt aagagcacag caaagcgggc ccgtaacagc attgtcatca tctggatgt cctctgcat ataatgattc ctcaggccat cgtcatggag tgcagcaccg tgttccacg cttagccaat aaacccacc tctttacggt gtgtgatgag cgctgggggt gtgaaattta tcccagatg taccacatct gtttcttct ggtgacatac atggcaccac tgtgttctcat tctgtgggt tatctgcaa tttctgcaa actctggtgt cgacagatcc ctggaacatc atctgtagt cagtgaaaat tgaagccctt gcagcctgtt tcacagcctc gagggccagg acagccaaag agtcccgga tgaagcctgt ggcgctgaa ataaagcaga tccgagccag aaggaaca gcccgatgt tgatgttgt gcttttgga tttgcaattt gctatctacc aattagcatc ctcaatgtgc taaagagagt atttgggatg tttgcccata ctgaagacag agagactgtg tatgctggt ttacctttc acactggctt gtatatgcca atagtgtgc gaatccaatt atttaaat tttcagtg aaatttcga gaggaattta agctgctgt tctgtgtgt tgcctggag ttcaccatcg ccaggagat cggctcacca ggggacgaac tagcacagag agccggaagt ccttgaccac tcaaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p> aactttgata acatatcaaa actttctgag caagtgtgc tcaatagcat aagcacactc ccagcagcca atggcgagg accacttcaa aactgttaga atatttattc atatgacaag gatactgag taaaactatc ctttttaaaa tcactgggaa cagaaaatttt attatcctat gatgtgaagc taaaattact tgtggatctt ttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaa aaaaaaaa aaa MSGTKLEDSP PCRNWSSASE LNETQEPFLN PTDYDDEEFL RYLWREYLHP KEYEWVLIAG P YIIIVFVALI GNVLCVAVW KNHMRVTIN YFIVNLSLAD YLVTITCLPA TLVVDITETW FFGQSLCKVI PYLQTVSVSV SVLTLSCIAL DRWYAICHPL MFKSTAKRAR NSIVIIWIVS CIIMIPQAIV MECSTVFPGL ANKTTLETVV DERWGGEIYP KMYHICFFLV TYMAPLCLMV LAYLQIFRKL WCRQIPGTSS VVQRKWKPLQ PVSQPRGPGQ PTKSRMSAVA AEIKQIRARR KTARMLMWL LVFAICYLPI SILNVLKRVF GMEFHTEDRE TVYAWFTFSH WLVYANSAAN PIIYNFLSGK FREEFKAAFS CCCLGVHHRQ EDRLTRGRTS TESRKSLLTQ ISNFDNISKL SEQVLTLSIS TLPAAAGAGP LQNW ccagctgata ttccagccca cagcaatgga gccacatgac tcctcccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc tttgtgctcg gggctattgc taatggctac gtgctgtggg tctttgccc cctgtaccct tgcagaataa tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tcttgatca cctgcccact ttggattgtc tactaccaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaacaccta ctgctctgtg gcttctctgg gcgtcatcac ttataaccgc ttccaggcag taactcgccc catcaagact gctcaggcca acaccgcaa gcgtggcatc tctttgtcct tggtcactcg ggtggccatt gtggagctcg catctactat cctcatcctg gactctacca acacagtgcc cgacagtgtc ggtcaggga acgtcactcg ctgctttgag cattacgaga aggcagcgt gccagtcctc atcatccaca tcttcactgt gttcagcttc ttcctggtct tccatcatc cctctctgc aacctgtga tcatccgtac cttgcctatg cagccggtgc agcagcagcg caacgtgaa gtcaagcgcc ggcgctgtg gatgtgtgc accgtcttgg cgtgttcat catctgtctc gtgcccacc accgtgtgca gctgcccctg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgacat caggtcaccc tctgctcct tagcaccac tgtgtcttag acctgttat ctactgttc ctaccaaga agttccgcaa gcacctacc gaaaagtct acagcatgcy cagtagccg aaatgctccc gggccaccac ggatacgtc actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcaaaaa ttagtcttg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVIMVF ARLYPCKKFN EIKIFMVNLT P MADMLFLITL PLWIVYQNG GNWILPKFLC NVAGCLFFIN TYCSVAELGV ITYNRQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEYKNG SVPVLIHIF IVFSFLVFL IILFCNDVII RYLLMQPVQQ QRNAEVKRRRA LWMVCTVLAV FIICFVPHHV VOLPWTIAEL GFQDSKFHQA INDAHQVTLCL LLSTNCVLDLP VIYCLTKKF RKHLTEKFS MRSSRKCSRA TTDVTTEVV PFNQIPGNSL KN tggggggcgctc ctctctgtc cccgcccgcc tgtcaagctg tgttctagcg gccgagggac A cgaggggggc taagaaagg ggcgccagc catcgagag caaaaggcg ctgcggaacg gggtccccgt cgccagtgtc gaggcaggag gtcgagcca caagtgggg gctgggaaagc aggaccagc acgggcgtct tggcaggcgg ccgggcgag ggcaggctg ctggggacgc </p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tcctcccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc tttgtgctcg gggctattgc taatggctac gtgctgtggg tctttgccc cctgtaccct tgcagaataa tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tcttgatca cctgcccact ttggattgtc tactaccaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaacaccta ctgctctgtg gcttctctgg gcgtcatcac ttataaccgc ttccaggcag taactcgccc catcaagact gctcaggcca acaccgcaa gcgtggcatc tctttgtcct tggtcactcg ggtggccatt gtggagctcg catctactat cctcatcctg gactctacca acacagtgcc cgacagtgtc ggtcaggga acgtcactcg ctgctttgag cattacgaga aggcagcgt gccagtcctc atcatccaca tcttcactgt gttcagcttc ttcctggtct tccatcatc cctctctgc aacctgtga tcatccgtac cttgcctatg cagccggtgc agcagcagcg caacgtgaa gtcaagcgcc ggcgctgtg gatgtgtgc accgtcttgg cgtgttcat catctgtctc gtgcccacc accgtgtgca gctgcccctg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgacat caggtcaccc tctgctcct tagcaccac tgtgtcttag acctgttat ctactgttc ctaccaaga agttccgcaa gcacctacc gaaaagtct acagcatgcy cagtagccg aaatgctccc gggccaccac ggatacgtc actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcaaaaa ttagtcttg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVIMVF ARLYPCKKFN EIKIFMVNLT P MADMLFLITL PLWIVYQNG GNWILPKFLC NVAGCLFFIN TYCSVAELGV ITYNRQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEYKNG SVPVLIHIF IVFSFLVFL IILFCNDVII RYLLMQPVQQ QRNAEVKRRRA LWMVCTVLAV FIICFVPHHV VOLPWTIAEL GFQDSKFHQA INDAHQVTLCL LLSTNCVLDLP VIYCLTKKF RKHLTEKFS MRSSRKCSRA TTDVTTEVV PFNQIPGNSL KN tggggggcgctc ctctctgtc cccgcccgcc tgtcaagctg tgttctagcg gccgagggac A cgaggggggc taagaaagg ggcgccagc catcgagag caaaaggcg ctgcggaacg gggtccccgt cgccagtgtc gaggcaggag gtcgagcca caagtgggg gctgggaaagc aggaccagc acgggcgtct tggcaggcgg ccgggcgag ggcaggctg ctggggacgc </p>	Homo sapiens
372	8436	Platelet- Activating Factor Receptor	NP_000943.1	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tcctcccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc tttgtgctcg gggctattgc taatggctac gtgctgtggg tctttgccc cctgtaccct tgcagaataa tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tcttgatca cctgcccact ttggattgtc tactaccaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaacaccta ctgctctgtg gcttctctgg gcgtcatcac ttataaccgc ttccaggcag taactcgccc catcaagact gctcaggcca acaccgcaa gcgtggcatc tctttgtcct tggtcactcg ggtggccatt gtggagctcg catctactat cctcatcctg gactctacca acacagtgcc cgacagtgtc ggtcaggga acgtcactcg ctgctttgag cattacgaga aggcagcgt gccagtcctc atcatccaca tcttcactgt gttcagcttc ttcctggtct tccatcatc cctctctgc aacctgtga tcatccgtac cttgcctatg cagccggtgc agcagcagcg caacgtgaa gtcaagcgcc ggcgctgtg gatgtgtgc accgtcttgg cgtgttcat catctgtctc gtgcccacc accgtgtgca gctgcccctg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgacat caggtcaccc tctgctcct tagcaccac tgtgtcttag acctgttat ctactgttc ctaccaaga agttccgcaa gcacctacc gaaaagtct acagcatgcy cagtagccg aaatgctccc gggccaccac ggatacgtc actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcaaaaa ttagtcttg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVIMVF ARLYPCKKFN EIKIFMVNLT P MADMLFLITL PLWIVYQNG GNWILPKFLC NVAGCLFFIN TYCSVAELGV ITYNRQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEYKNG SVPVLIHIF IVFSFLVFL IILFCNDVII RYLLMQPVQQ QRNAEVKRRRA LWMVCTVLAV FIICFVPHHV VOLPWTIAEL GFQDSKFHQA INDAHQVTLCL LLSTNCVLDLP VIYCLTKKF RKHLTEKFS MRSSRKCSRA TTDVTTEVV PFNQIPGNSL KN tggggggcgctc ctctctgtc cccgcccgcc tgtcaagctg tgttctagcg gccgagggac A cgaggggggc taagaaagg ggcgccagc catcgagag caaaaggcg ctgcggaacg gggtccccgt cgccagtgtc gaggcaggag gtcgagcca caagtgggg gctgggaaagc aggaccagc acgggcgtct tggcaggcgg ccgggcgag ggcaggctg ctggggacgc </p>	Homo sapiens
373	8509	G Protein- Coupled Receptor Is8509	NM_007223	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tcctcccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc tttgtgctcg gggctattgc taatggctac gtgctgtggg tctttgccc cctgtaccct tgcagaataa tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tcttgatca cctgcccact ttggattgtc tactaccaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaacaccta ctgctctgtg gcttctctgg gcgtcatcac ttataaccgc ttccaggcag taactcgccc catcaagact gctcaggcca acaccgcaa gcgtggcatc tctttgtcct tggtcactcg ggtggccatt gtggagctcg catctactat cctcatcctg gactctacca acacagtgcc cgacagtgtc ggtcaggga acgtcactcg ctgctttgag cattacgaga aggcagcgt gccagtcctc atcatccaca tcttcactgt gttcagcttc ttcctggtct tccatcatc cctctctgc aacctgtga tcatccgtac cttgcctatg cagccggtgc agcagcagcg caacgtgaa gtcaagcgcc ggcgctgtg gatgtgtgc accgtcttgg cgtgttcat catctgtctc gtgcccacc accgtgtgca gctgcccctg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgacat caggtcaccc tctgctcct tagcaccac tgtgtcttag acctgttat ctactgttc ctaccaaga agttccgcaa gcacctacc gaaaagtct acagcatgcy cagtagccg aaatgctccc gggccaccac ggatacgtc actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcaaaaa ttagtcttg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVIMVF ARLYPCKKFN EIKIFMVNLT P MADMLFLITL PLWIVYQNG GNWILPKFLC NVAGCLFFIN TYCSVAELGV ITYNRQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEYKNG SVPVLIHIF IVFSFLVFL IILFCNDVII RYLLMQPVQQ QRNAEVKRRRA LWMVCTVLAV FIICFVPHHV VOLPWTIAEL GFQDSKFHQA INDAHQVTLCL LLSTNCVLDLP VIYCLTKKF RKHLTEKFS MRSSRKCSRA TTDVTTEVV PFNQIPGNSL KN tggggggcgctc ctctctgtc cccgcccgcc tgtcaagctg tgttctagcg gccgagggac A cgaggggggc taagaaagg ggcgccagc catcgagag caaaaggcg ctgcggaacg gggtccccgt cgccagtgtc gaggcaggag gtcgagcca caagtgggg gctgggaaagc aggaccagc acgggcgtct tggcaggcgg ccgggcgag ggcaggctg ctggggacgc </p>	Homo sapiens

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374	8509	G Protein- Coupled Receptor Ls8509	NP_009154.1	<p>taccaccatgt gcaactttctg aggatgcctc acttccctgg gctctgcaga gaacacacag agagaagact ttcagagctc acagagcag ggaagcaggag cactctaagg gaattc MGHNGSWISP NASEPHNASG AEAAGVNRSA LGEFGEAQLY RQFTTTVQVV IFIGSLLGNF P MVLWSTCRRT VFKSVTNRFI KNLACSGICA SILCVPFDDI LSTSPHCCWW IYTMFLCKVV KFLHKVFCVS TISFPALIAL DRYYSVLYPL ERKISDKAR ELMYIWAHA VVASVPVFVAV TNVADIYATS TCSTEWSNSL GHLVYVLVYN ITTVIVPVVV VFLELILIRR ALSASQKKVV IIAALRTPQN TISIPYASQR EAEHLATLLS MMVFIILCSV PYATLVVYQT VLNVPDTSVF LLLTAVWLPK VSLLANPVLF ITVNSVRKC LIGTLVQLHH RYSRRNVVST GSGMAEASLE PSIRSGSOLL EMFHIGQQOI FKPTDEDEES EAKYIGSADF QAKEIFSTCL EGEQQPQFAP SAPPLSTVDS VSQVAPAAPV EPETFPDKYS LQFGFGPFEL PPQWLSETRN SKKRLLPPLG NTPPELIQTK VPKVGRVERK MSRNKVSIF PKVDS</p>	Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	<p>ttgataggga tagaaacaca ttggctgctg tctatagtta acaagatgct gttacattcc A ttgctcact agctctgaag actatactag cgggacaaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc tggatatattg ttctatgtcc tctcaggggc tttgctacca ctagagaatt atccatatta agaacttgca ttgatattct gggttctggt tcaattttta gggctcgaag agcagctca agtcaattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa ttctcgtcg gatgcctcac acaaggtgc cttccaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaatctct tcttacaatc ctgacacaaat ggaagtcttc ctaaacacc cagcatctaa tacaaccagc acaaagaaca acaactcggc atttttttac tttagatctt gteaacctcc ttctccagct ttactcctat tatgcatagc ctatactgtg gtcttaattg tgggaccttt tggaacctc tctctcatca tcatcatctt taagaagcag agaaaagctc agaatctcac cagcatactg attggcaatc tctccctctc tgatacttg gtgtgtgtca tgtgcatacca ttttactatc atctacacac tgatggacca ctggatatatt ggggatacca tgtgcagact cacatcctat gtgcagagtg tctcaatctc tgtgtccata ttctcacttg tattcactgc tgcgaaaga tatcagctaa ttgtgaacc cgtggctgg aggccagtg tgactcatgc ctactggggc atcacactga ttgtgctgtt ttccctctg ctgtctattc ccttcttctt gtcctaccac ctcactgatg agcccttccg caactctct ctcccactg acctctacac ccaccagggtg gctgtgtgg agaactggcc ctccaaaag gaccggctgc tctcaccac ctcccttttt ctgctgcagt atttgttcc tctaggcttc atcctcatct gctacttgaa gattgttate tgccctccga ggagaaatgc aaagtagat aagaagaagg aaaaaggagg ccggctcaat gagaaacaaga ggaatcaaac aatgttgatt tccatcgtgg tgaccttgg agcctgctgg ctgccccgaa tatcttcaat gtcatctttg actggtatca tgaggtgctg atgagctgcc accagacctt ggtatttgtta gtttgccact tgggtgctat ggtttccaca tgtataaacc ctctctttta tggctttctc aacaaaatt tccaaaagg cctggtagtg cttattcacc actgctgggtg ctccacacct caggaaagat gtgaaaatat tgcctatctcc actatgcaca cagactccaa gaggtcttta agattggctc gtataacaac aggtatatga aaattgataa tgctgaagct ctcttgaat gggagctgga caggtaattg tgggaatagg gcaagatgca gaagaagaa accagaacca aaatagcaa ctttataccc actttcctt taggctaaga ctgctgtctc catatgtcta tccaacacac cctccaacat acacgaacac acataccacc ccttttctct taagaaaaata actctaataa ttcaaacacac ctgcccccca tcatttgttg</p>	Homo sapiens

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	mevslnhpas nttstknns affyfesccp pspallllci aytvvlivgl fgnsliliii P fkkgkraqnf tsilianlsl sdtlvcvmci hfiitltdm hwifgdtmcr ltsyvqsvsi svsifslvft averyqlivn prgwkpsvth aywgitliwl fslllsipff lsyhltdepf rnslsptdly thqvacvenw pskkdrllft tsllfllyfv plgfilicyl kiviclrrrn akvdkkkene grlnenkrin tmlisivvtf gacwlpriiss msslgtimrc	Homo sapiens
377	9421	Neuropeptide Y Receptor Type 1	nm_000909	cattcccacc ctctcttctt taataagcag gagcgaaaaa gacaaaattcc aaagaggatt A gttcagttca agggaaatgaa gaatttcagaa taatttttgtt aaatggattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaaac atactgtcca ttgtctaaaa ataatctata acaaccaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgcccag cttctggctt ttgaaaaatga tgatttgtcat ctgccccttg ccatgatatt taccttagct cttgcttatt gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atcttgaac aaaaggagat gagaaatgtt accaacatcc tgatttgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttggtgaggc gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca ttttctctct ggttctcatl gctgtggaac gacatcagct gataatcaac cctcgagggt ggagacaaaa taatagacat gcttattgag gtattgtctg gatttgggtc cttgctgtgg cttcttcttt gcctttcctg atctaccaag taatgactga tgagccgttc caaaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgtctta taccactctc ctcttggtgc tgcagtattt tgggtccactt tgttttatat ttatttgcta cttcaagata tatatacgcc taaaaaggag aacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaac ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgacgtc tgttggctcc cctttaccat ctttaacact tggtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tgcacactca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagtctctc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaactact tatagcctat gggtccggat gacatctgtt taaaaacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatggggttg aaatcatttg aaaatgacta agattttctt gtcttgcttt ttactgcttt tgttgtagtt gtcataatta catttggaa aaaaagtgtg ggctttgggg tcttctggaa atagtittga ccagacatct ttgaagtgtc ttttgtgaat ttatgcatat aatataaaga cttttatact gtactttatg gaatgaaatt tctttaaagt attacgatgc gctgacttca gaagtacctg ccatacata cgttcattag attgggtcat cttgattaga ttagattaga ttagattgtc aacagattgg gccatcctta ctttatgata ggcacattt tagtgtgta caatagtaac agtatgcaa agcagcattc aggagccgaa agatagtctt gaagtcattc agaagtgggt tgaggtttct gtttttgggt gggttttgggt tgttttttt ttttttcacc ttaaggggag ctttcatttc ctccgactg attgtcactt aaatcaaaat	Homo sapiens

378	9421	Neuropeptide NP_000900.1 Y Receptor Type 1	<p> ttaaaaaatga ataaaaagac atacttctca gctgcaataa ttatggagaa ttgggcaccc acaggaatga agagagaaag cagctcccca actcaaaaac cattttggta cctgacaaca agagcatttt agagtaatta atttaataaa gtaaattagt attgctgcaa atagctaaat tatatttatt tgaattgatg gtcaagagat ttccattttt ttttacagac tgttcagtgt ttgtcaagct tctggtctaa tatgtactcg aaagactttc cgtttacaat ttgtagaaac acaaatatcg ttttccatac agcagtgcct atatagtac tgaattttaa ttccaatgtc catctttcaa aggaagtaac accaaggtac aatgttaaag gaattttcac tttaacctagc agggaaaaat acacaaaaac tgcagatact tcatatagcc cattttaact tgtataaact gtgtgacttg tggcgtctta taaataatgc actgtaaaga ttactgaata gtgtgtcat gtaaatgtgc ctaatttcat gtatcttgta atcatgattg agcctcagaa tcatttggag aaactatatt ttaaagaaca agacatactt caatgtatta tacagataaa gtattacatg tgtttgattt taaaaggcg gacattttat taaatcaat attgtttttg cttttctga ggagtcctct tcaagttcat tttttctcat cccatgactt cctcccgatg gt gtagtcctct MNSTLFSQVE NHSVHSNFSE KNAQLLAFEN DDCHLPLAMI FTLALAYGAV IILGVSGNLA P LIIILKQKE MRNVNIIIV NLSFSDLIVA IMCLPFTFVY TLMDDHWVGE AMCKLNPFVQ CVSITVSIFS LVLI AVERHQ LIINPRGWRP NNRHAYVGIA VIWVLAVASS LPFLIYQVMT DEPFQNVTL D AYKDKYVCFD QFPSDSHRLS YTTLLLVLIQY FGPLCFIFIC YFKIYIRLKR RNNMMDKMRD NKYRSSETKR INIMLLSIV AFAVCWLPLT IFNTVFDWNH QIATCNHNL LFLCHLTAM ISTCVNPIFY GFLENKFNQRD LQFFNFCD F RSRDDDYETI AMSTMHTDVS KTSLLKQASPV AFKKINND D NEKI agccgagcga gcccgaggat gggcgaggc cgcagactcc gtctcgtcaa ggccttctc A cttctggggc tgaaccccg cctctgctcc ctcagagacc agactgcga gacctgtcc ctggccagca acatctcaga caatggctac cgggagtgc ttggcaaatgg cagctggcc gcccgcgta attactccga gtgccaggag atctcactg aggagaaaaa aagcaagggtg cactaccatg tcgagctcat catcaactac ctggggccact gtatctccct ggtggccctc ctggtggcct ttgtctctct ttctcggtc aggagcatcc ggtgcttcg aaacatcatc cactggaacc tcactccgc cttcatctg cgcaaaccca cctggttcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcaggttgg gacagccgcc tacaactact tccatgtgac caactcttc tggatgttcg gcaggggctg ctacctgcac acagccatcg tgtcaacctc ctcactgac cggctgcgca atggatgtt catctgcatt ggctgggggtg tgcccttccc catcattgtg gccctgggcca ttgggaagct gtactacgac aatgagaagt gctgggtttgg caaaggcct ggggtgtaca ccgactacat ctaccagggc cccatgatcc tggctctgct gatcaattc atctctttt tcaacatcgt cgcgctccctc atgaccaagc tccgggcac caccagctct gagaccattc agtacaggaa ggcgtgtaaa gccactctgg tgctgtgccc cctcctgggc atcaactaca tgcgtgtctt cgtcaatccc ggggaggatg aggtctccc ggtgtcttc atctactca actcttctt ggaatccctc cagggtctct ttgtgtctgt gtctactgt ttctcaata gtgaggtccg ttctgacctc cggaagaggt ggcacccgtg gcaggacaa gacatgatcc gtgcccagat gccccgtgccc atgtccatcc ccacctcccc aacctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens
379	9834	Corticotropin releasing factor Receptor 1	<p> agccgagcga gcccgaggat gggcgaggc cgcagactcc gtctcgtcaa ggccttctc A cttctggggc tgaaccccg cctctgctcc ctcagagacc agactgcga gacctgtcc ctggccagca acatctcaga caatggctac cgggagtgc ttggcaaatgg cagctggcc gcccgcgta attactccga gtgccaggag atctcactg aggagaaaaa aagcaagggtg cactaccatg tcgagctcat catcaactac ctggggccact gtatctccct ggtggccctc ctggtggcct ttgtctctct ttctcggtc aggagcatcc ggtgcttcg aaacatcatc cactggaacc tcactccgc cttcatctg cgcaaaccca cctggttcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcaggttgg gacagccgcc tacaactact tccatgtgac caactcttc tggatgttcg gcaggggctg ctacctgcac acagccatcg tgtcaacctc ctcactgac cggctgcgca atggatgtt catctgcatt ggctgggggtg tgcccttccc catcattgtg gccctgggcca ttgggaagct gtactacgac aatgagaagt gctgggtttgg caaaggcct ggggtgtaca ccgactacat ctaccagggc cccatgatcc tggctctgct gatcaattc atctctttt tcaacatcgt cgcgctccctc atgaccaagc tccgggcac caccagctct gagaccattc agtacaggaa ggcgtgtaaa gccactctgg tgctgtgccc cctcctgggc atcaactaca tgcgtgtctt cgtcaatccc ggggaggatg aggtctccc ggtgtcttc atctactca actcttctt ggaatccctc cagggtctct ttgtgtctgt gtctactgt ttctcaata gtgaggtccg ttctgacctc cggaagaggt ggcacccgtg gcaggacaa gacatgatcc gtgcccagat gccccgtgccc atgtccatcc ccacctcccc aacctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens

380	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	MGHPQLRLV KALLLLGLNP VSASLQDQHC ESLSLASNIS DNGYRECLAN GSWAARVNYS P	Homo sapiens
				EQEILNEEK KSKVHYHVAV IINYLGHICIS LVALLVAFVL FLRLRSIRCL RNIIHWNLIS AFILRNATWF VVQLTMSPEV HQSNVGMCRLL VTAAANYFHV TNFFWMFEGE CYLHTAIVLT YSTDLRLKWM FICIGWGVPE PIIVAWAIGK LYVDNEKCFW GKRPGVYTDY IYQGPMILVL LINFIFLFNI VRILMTKLRA STTSETIQYR KAVKATLVL PIGLITYMLF FVNPGEDEV RVVFIYFNSF LESFQGFVVS VFYCFINSEV RSAIRKRWHR WQDKHSIRAR VARAMS IPTS PTRVSEHSIK QSTAV	
381	10457	Frizzled-2	NM_001466	cgagtaaaagt ttcaaaagag gcgcgggagg gcgcagccgc agcgaggagg cggcggggaa A gaagcgaggt ctcggggttg ggggcggggg ggggcggggc gcaaggaggc cgggtggggg gcggcgggcca gcacgcggcc ccgcagcgcc ctgcccgcgc tgcgtctgcc gctgctgtg ctgcccgcgc ccggggccgc ccagttccac ggggagaaag gcatctccat ccgggaccac ggctctgcc agccatctc catccgctg tgcacggaca tgcctacaa ccagaccatc atgcccacc ttctgggcca caccgaaccag gaggacgcag gcttagaggt gcaccagttc tatccgctgg tgaaggtgca gtgctgcgc gaactgcgt tcttctgtg ctccatgtac gcaccctgt gcacgtgtc ggaacaggcc atccgcgcgt gcgcctctat ctgtgagcgc gcgcgccagg gctgcgaagc cctcatgaac agttcggtt tcaagtggcc cgagcgccg cgctgcagc acttccgcgc ccacggcgcc gacagatct ggtcgggcca gaaccactcc gaggacggag ctcgcgcgt actcaccacc ggcgcgcgc cgggactgca gccgggtgcc gggggcaacc cgggtggccc gggcgggcgc ggcgctccc ccgcctacgc cagcttggag caccccttc actgcgcgc cgtcctcaag gtgcctcct atctcagta caagtttctg ggcgagcgtg attgtctgc gccctgcga cctgcgcgc ccgatggttc catgttcttc tcacaggagg agacggttt cgcgcgcctc tggatcctca cctggtcgtg gctgtgctgc gcttccact tcttactgt caccacgtac ttggtagaca tgcagcgtt ccgtaacca gagcgcccta tcattttct gtcgggctgc tacaccatgg tgtcgggtgc ctacatcgcg ggctctgtgc tccaggaggc cgtggtgtgc aacgagcgt tctccaggga cggttaccgc acgtggtgtgc agggcaccac gaaggagggc tgaccatcc tcttcagat gctctacttc tteagcatgg ccagctccat ctggtgggtc atcctgtgc tcaactggt cctggcagcc ggcatgaagt ggggcccacga ggccatcag gccactctc agtacttcca cctggccgc tgggcccgtgc cggccgtcaa gaccatcacc atcctggcca tgggcccagat cgacggcgac ctgctgagcg gcgtgtgctt cgtaggcctc aacagcctgg acccgctgcg gggcttctgtg ctagcgccgc tctctgtga cctgttcat ggcagctcct tctcctggc cggcttctgtg tcgctcttcc gcacccgcac catcatgaag cagcagggca ccaagaccga aaagctggag cggctcatgg tgcgcatcgg cgttcttctc gtctctaca cagtgcgcgc caccatcgtc atcgttctgt acttctacga gcagcccttc ccgagcact ggaagcgtc gtgggtgagc cagcactgca agagcctggc catccctgc ccggcgcat acacgcgcgc catgtcgcgc gacttcacgg tctacatgat caataacctc atgacgtca tctgtgggcat cagctcggc ttctggatct ggtcggggcaa gacgtgcac tctgtgagga agttctacac tgcctcacc aacagccgac acggtgagac caccgtgtga gggacgcccc cggcgccgaa ccgcgcggcg cttctctcg ccggggtgg ggccctaca gactccgtat ttattttt taaataaaaa acgcatcgaaa ccatttact tttaggttgc ttittaaaaa agaactctct gcccaacacc ccc	Homo sapiens

382	10457	Frizzled-2	NP_001457.1	MRPRSALPRL LLPLLLLPAA GPAQFHGEKG ISIPDHGFCQ PISIPCLTDI AXNQTIMPNL P LGHTNQEDAG LEVHQFYPLV KVQSPPELRF FLCSMYAPVC TVLEQAIPPC RSICERARQG CEALMNKFGF QWPERLURCEH FPRHGAEQIC VQGNHSEDA PALITATPPP GLQPGAGGTP GGPGGGAPP RYATLEHPFH CPRVLKVPY LSXKFLGERD CAAPCEPARP DGSMTFFSOEE TRFARLWILT WSVLCCASTF FTVTYLVDM QRERYPERPI IFLSGCYTMV SVAYIAGFVL QERVVCNERF SEDGYRTVVQ GTKKEGCTIL FMYLYFFSMA SIIWWVILSL TWFLAAGMKW GHEALEANSQ YFHAAWAVP AVKITITILAM GQIDGDLISG VCFVGLNSLD PLRGFVLAPL FVYLFIGTSF LLAGFVSLFR IRTIMKHDTG KTEKLERLMV RIGVFSVLYT VPATIVIACY FYEQAPREHW ERSWVSQCHK SLAIFCPAHY TPRMSPDFTV YMIKYLMTLI VGITSGFWIW SGKTLHSWRK FYTRLTNSRH GETTV	Homo sapiens
383	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNP1IY20)	NM_022571	atggccttac tgggcagcca gcactccggc gccccctccg cggccggccc acctggcggg A acttcctcag cggccacggc ggcctgtgctc tccctcagca cegtggcgac cgcggcgctg gggaacctga gcagcagcaag cggaggcggc acagctgccc ctcgccgtgg cgcggcgctt ggcgggtccc gggcagcggc ggcggcggg cggcggtga ggcggcggc aggcggcgag ggcggcgccg tgcctgtcga cggagctgca gtggcgccc aggcgtcgt cctcctgctc atcttctgc tgttagcct tggcaactgc cgcctcctc cctatcggt cctgctcag cagctccgca cgcctcacc cgcctcctg gacctctca ctcgcccg ggttcggcg gcgtgctct gccggccgc cgcctcctg ctcggcgcc tctgcccga cagccgctt cttcagctc cctgcgtgc cgcgggggc ctcggcgcc gcctcctgc gctcctcgt ttgaccgtt actgcgctat tgcttcggca tctgtacgc tcagcgtggc gctcctcgt tgcagcgtt ggcggcgcc cgtgcggcc cgcggagaa gacggccgc cgcgcgcgc tgcagctgt ggcggcgcc tggtgacgg cctgggctt ctcctgccc tggagctgc tggggcgcc cgggaaactc ggcggggcc agagctcca cggctgccc tacggacct ccccgacct cgcgagctg ggcggccct tcagcgtgg gctggtggt gctgctacc tgcgtccct cctgctcctc tgcctctgc actaccat ctgcaagac gtgcgctgt cggacgtgc cgtgcggccg gtgaacacct acgcgcgct gctgcgttct tcagcaggt gcgcacggc accaccgtcc tcatcatga	Homo sapiens
384	11968	Putative Leukocyte Platelet-Activating Factor Receptor (HUMNP1IY20)	NP_072093.1	MALLGSHSG APSAAGPPGG TSSAATAAVL SFSIVATAAL GNLSDASGGG TAAAPGGGGL P GSGAAREAG AAVRRLGPE APLLSHGAA VAAQALVLLL IFLLSSLGNC AVMGIVKHR QLRTVTNAFI LSLSLDLT ALLCLPAFL DLFTPPGSA PALPAGPWRG FCRPSRFFSS CFGIVYAQRG AHLVGPLRY RRPPEKIGR RRALQLLAGA WLTAIGFSLP WELLGAPREL AAGQSFHGCL YRTSPDPAQL GGFPSVGLV ACYLLPFLLI CFCHYHICKT VRLSDVRVRP VNTYARVLR SARCAPPSS SS	Homo sapiens
385	14198	Interleukin-8 Receptor B	nm_001557	cattcagaga cagaaggtgg atagacaaa ctcacacctc agactggtag gctcctccag A aagccatcag acaggaagat gtgaaaatcc ccagcactca tccagaatc actaagtggc acctgtcctg gcccgaagtc ccagacaga cctcatgtt cctctgtggg aatacctccc caggagggca tctgtgatt ccccttgca acccaggtca gaagtctcat cgtcaaggtt gttcatctt tttttctctg tctaacagt cctactacca cccaacctg aggcacagt aagacatcgg tggccactcc aataacagca ggtcacagt cctcttctg aggtgtccta caggtgaaaa gccccagcag cagtcagga ttttaagtta cctcaaaaat ggaagatttt	Homo sapiens

aacatggaga gtgacagctt tgaagatttc tggaaaggtg aagatcttag taattacagt
tacagtctta cctgcccc ttttctacta gatgcgcgcc catgtgaacc agaattccctg
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cttcacagct gcotcaacc cctcatctac gcttctattg gccagaagtt tcggccatgga
ctcctcaaga ttctagctat acatggcttg atcagcaagg actccctgcc caaagacagc
aggccttctt ttgttggctc ttcttcaggg cacacttcca ctactctta agacctcctg
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cccttggcca taattactat gtcatttgc tggagctctgc ccatcctgcc cctgagccca
tggcactcta tgttctaaga agtgaaaatc tacactccag tgagacagct ctgcatactc
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cgaagtatcc ttcagcctga aagaggaatg aagtaactat acatgttaca acaggacga
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gacttaatgc cactaaattg acactaaaa atggtttaaa tgggtcaattt tgttatgtat
attttatatc aatttaaaaa aaacctgag ccccaaaagg tattttaatc accaaggctg
attaaaccaa ggctagaacc acctgcctat atttttgtt aaatgatttc attcaatatac
ttttttttaa taaaccattt ttacttgggt gtttat

386	14198	Interleukin-8 Receptor B	NP_001548.1	MEDFNMESDS	FEDFWKGEDL	SNYSYSSTLP	PFLDDAAPCE	PESLEINKYF	VWIIYALVFL	P	Homo sapiens
				LSLLGNLSLVM	LVILYSRVGR	SVDVYLLNL	ALADLLFALT	LPIWAASKVN	GWIFGTFLCK		
				VVSILKEVNF	YSGILLIACI	SVDRYLAIVH	ATRTLTKRKY	IVKFICLSIW	GLSLLALPVP		
				LLFRRTVYSS	NVPACYEDM	GNNTANWRML	LRILPQSEFG	IVPILLMLFC	YGFTLRLTLFK		
				AHMGQKHRAM	RVIFAVVLIF	LLCWLPYNLV	LLADTLMRTQ	VIQETCERN	HIDRALDATE		
				ILGILHSCIN	PLIYAFIGQK	FRHGLLKILA	IHGLISKDSL	PKDSRPSFVG	SSSGHTSTTL		
387	14641	Calcitonin Receptor	NM_001742		cagaattcca	ggacaagag	atcttcaaaa	atcaaaaatg	aggttcacat	ttacaagccg	A
				gtgcttgcca	ctgtttcttc	ttctaaatca	cccaacccca	attcttcctg	ccctttcaaa		
				tcaaacctat	ccaacaatag	agcccaagcc	attcttttac	gtcgtaggac	gaaagaagat		
				gatggatgca	cagtacaaat	gctatgaccg	aatgcagcag	ttaccgccat	accaaggaga		
				aggtccatat	tgcaatcgca	ctgggatgg	atggctgtgc	tgggatgaca	caccggctgg		
				agtattgtcc	tatcagttct	gccagatta	ttttccggat	tttgatccat	cagaaaaggt		
				tacaaaaatc	tggtatgaaa	aaggtgtttg	gtttaaacat	cctgaaaaa	atcgaacctg		
				gtccaactat	actatgtgca	atgctttcac	tcttgagaaa	ctgaagaatg	catatgttct		
				gtactatttg	gctattgtgg	gtcattcttt	gtcaattttc	accctagtga	tttccctggg		
				gattttcgtg	tttttcagga	gccttggctg	ccaaaaggta	accctgcaca	agaacatgtt		
				tcttacttac	attctgaatt	ctatgattat	catcatccac	ctggttgaag	tagtacccaa		
				tggagagctc	gtcgaaagg	accoggtgag	ctgcaagatt	ttgcattttt	tcaccacgta		
				catgatggcc	tgcaactatt	tctggatgct	ctgtgaagg	atctatcttc	atacacatca		
				tgtcgtggct	gtgtttactg	agaagcaacg	cttgcggtgg	tattatctct	tgggctgggg		
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388	14641	Calcitonin Receptor	NP_001733.1	<p> a a c a t t a c a t g c t c a g c t t g g t t t t g g a c a a g c c t g t c c a t t g g g c a g g a c c t a g c t g t t g t a a g a a t g t t g a a t g t a t t t t g g t g c t g a t g t t a t a a a c t g a g g g t c a c a a a g a a t c t a t c a c t a a a a t t t t t a c a a a a c t g c c a a a a a t a t a a t t c t t a g t g g a a g a c a a t a c t c c c t t t a a a g a g a t t t g c c a c t c c c t a a a c t c c a g g a t t t a t a a a g c a a a t t a c t c c a a g g t t t a t a a a g c a g a t t a c c t t t g c c c t t g g g t g c t a t c t a g c a g t a a a a g a t a a a t t t g t t g a a t a t t g g t a a t a a a g a c t g c c a c a t a a g t c c a t t a a c t g c t t t c c a c c c a g c t t c a a a g c t t a a a a a g a g c t c a g g c t t t c c c a g g a a g a t c c a g g a g g g c t a a t a g a a a t c a a c t t g t g g t t g a c c g c t t g t t c t t g t t a t t a c c a a a c a g g a g g g g a a a a a t t a a c t g c t c c a a t t t a a c c a t a a a t c a a t t c a t g t t t a a c g t t t o t c a t t a a a a t c c a g t a t t a t a t t a t c a t a t c t c t c t t t a c t t c c c a g t a t a a g a t t t t t g a a a a t c c t g a a t a a a c c a g t a t c g t t a c t g g c a c c t g a a a t t a a t t t g t g a a t t t g c a a c a g t a a t c a g a g t t a c c a t t a t t t a a t t t g t a t g c t a a a t g a g g a g g t a c a t t g a a a c c c t c c a a a t c t c c a g t c t c a t c t a t g t c a t a t t t t g c c a c t g c c t t t c a g a a g t g a t t t a g t t g t g g a a a g a t a a t a a a t t g a t t t g t t a t g g t t a c a t a t t t a g c g c a c c c a g a g a a a a t t a a t t a t a t t t c t a c a g a g a a a a t g a a t t t g g g a t a c t a a a a g t a g t t t a a g t c t c c t t a c t g a a t g t a a g g g g g g g a t c g a a a g a a g g t a t t t t t c c a a t c a c a g t g t t a t g t a g t a t t g t t c t a t t t t t g t t t a c a a a c a t g g a a a a c a g a g t a t t t c t g g c a g c t g t g g t a c a a a t g t g a t a a t a t a t t g c t a a a a t a t t t t a g a t g t t a t t a t g c t a a t a t a g t a g g g g t t g a a g a a a c a a a a a t a g c t t a t t a t a g a a t t g c a c a t a g t t c t g c c c a a a t t a t g t g a a a t g c t t a t g c t t g t g t a t a t g t a t a a a t t a a t a c a g a g t a c g t t a a a a g c a a a a a g a t g t a t a t t t g c a t a t t t t t c t a a a g a a a t a t a t t a t t c a t c t t t t c a t t c </p>	Homo sapiens
389	16041	C-C Chemokine Receptor 6	NM_004367	<p> c a a a c g t t c c c a a a t c t t c c c a g t c g g c t t g c a g a g a c t c c t t g c t c c c a g g a g a t a a c c A a g a a g c t g c a t e t t a t t g a c a g a t g g t c a t c a c a t t g g t g a g c t g g a g t c a t c a g a t t g t g g g g c c c g g a g t g a g g c t g a a g g g a g t g g a t c a g a g c a c t g c c t g a g a g t c a c c t c t a c t t t c c t g c t a c c g c t g c c t g t g a g c t g a a g g g g c t g a a c c a t a c a c t c c t t t t t c t a c a a c c a g c t t g c a t t t t t t c t g c c c a c a a t g a g c g g g g a a t c c a t g a a t t t c a g c g a t g t t t t c g a c t c c a g t g a a g a t t a t t t t g t g t c a g t c a a t a c t t c a t a t t a c t c a g t t g a t t c t g a g a t g t t a c t g t g e t c c t t g c a g g a g t c a g g c a g t t c t c c a g g c t a t t t g t a c c g a t t g c c t a c t c c t t g a t e t g t g t c t t t g g c c t c c t g g g g a a t a t t c t g g t g g t g a t c a c c t t t g c t t t t t a t a a g a a g g c c a g g t c t a t g a c a g a c g t c t a t c t c t t g a a c a t g g c c a t t g c a g a c a t c c t c t t t g t t c t t a c t c t c c c a t t c t g g g c a g t g a g t c a t g c c a c t g g t g c g t g g g t t t t c a g c a a t g c c a c g t g c a a g t t g c t a a a a g g c a t c t a t g c c a t c a a c t t t a a c t g c g g g a t g c t g c t c c t g a c t t g c a t t a g c a t g g a c c g g t a c a t c g c c a t t g t a c a g g c g a c t a a g </p>	Homo sapiens

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Homo
sapiens

P

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NP_004358.1

C-C
Chemokine
Receptor 6

16041

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Homo
sapiens

A

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Smoothed

16599

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			AGLAFDLNEP	SADVSSAWAQ	HVTKMVARRG	AILQDISVT	PVATPVPEE	QANLWIVEAE	
			ISPELQKRLG	RKKRRKRKK	EVCPLAPPPE	LHPPAPAPST	IPRLPQLPRQ	KCLVAAGAWG	

393	17250	G Protein- Coupled Receptor GPR45	NM_007227	AGDSCRQGAW TLVSNPFCPE PSPPQDPFLP SAPAPVAWAH GRRQGLGPIH SRTNLMDETEL MDADSDF	atggcctgca acagcaagtc ccttgaggct tacacatacc tgctgctgaa caccagcaac A gcttcagact cggggtccac ccagttgccc gcacccctca ggaatctcctt ggccatagtg atgctgtgta tgaccgtggt ggggttccctg ggcaacactg tggctctgcat cctcgtgtac cagaggccgg ctatgcgtc ggccatcaac ctgctgctgg ccacccctggc cttctccgac atcatgctgt cctctgctc catgcccttc accgcgctca cctcatcac cgtgcgctgg cactttgggg accacttctg ccgcctctca gccacgctct actggttttt tgtcctggag ggcgtggcca tcttgctcat catcagcgtg gaccgcttc tcatcatcgt ccagcgccag gacaagctga acccgccag ggccaagggt atcatcgcg tctcctgggt gctgtccttc tgcatcgcg ggccctcgct cagggctgg acgtcggtg agtgccggc gggggcccca cagtgcgtgc tgggctacac ggagctccc gctgaccgag catacgtggt cactttggtg gtggccgtgt tcttgcgcc ctttgccgc atgctgctg cctacatgtg catcctcaac acggctccga agaacgcgt gcgctgcaac aaccagtcgg acagcctgga cctgcggcag ctcaccagg cgggctgctg gcgctgcaac cggcagcaac aggtcagcgt ggaattgagc ttcaagacca aggccttcac caccatcctg atcctctcg tgggcttctc cctctgctgg ctgccccact ccgtctacag cctcctgtct gtgttagcc agcgctttta ctgcggttcc tcttctacg ccaccagcac ctgcgtcctg tgggtcagtt acctcaagtc cgtcttcaac cccctgctc actgctggag aatcaaaaaa ttccgcgagg cctgcataga gttgctgccc cagaccttcc aaatcctccc caaagtgcct gagcgatcc gaaggagaat ccagccaagc acagtatacg tgtgcaatga aaacagctct gcggtttag QRPAMRSAIN LLLATLAFSD IMLSLCCMPF TAVTLITVRW HEGDHFCLRS ATLYWFFVLE GVAILLIISV DRFLIIVQRQ DKLNPRRAKV ILAVSWLSE CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVVTLV VAVFPAPFV MLCAYMCILN TVRKNVAVRH NQSDSLDLRQ LFRAGLRRLQ RQQVSVDSL FTKAFTTIL ILFVGFSLCW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVYVCNENQS AV	Homo sapiens
394	17250	G Protein- Coupled Receptor GPR45	NP_009158.1	gtgtttatga gctgctattg aacacggcag agcctgttgg tgacctgcac acaggagccc A tccagtcagt actgattgaa ttactcaagg ctgcctctct gcaaaagtga gcaatacagg acgtcgggac tgggcatttc ctccaacat ggcgcacct gectctccgc agcaactcgc cactgaggat gcgattctg agaatagcag ctctctattac tatgactacc tggatgaagt ggccttcagt ctctgcagga aggatgcagt ggtgtccttt ggcaaaagtct tctctccagt cttctatagc ctgatttttg tgttgggctt cagcggggaac ctccttcttc teatggtctt gctcgtttac gtgcctcgca ggcgatggt tgagatctat ctgctgaatc tggccatctc caaccttctg tttctggtga cactgccctt ctggggcatc tccgtggcct ggcattgggt cttcgggagt ttcttgtgca agatggtgag cactctttat actattaact ttacacagtgg catcttttcc attagctgca tgagcctgga caagtacctg gagatcgttc atgtcagcc ctaccacagg ctgaggaccc ggccaagag cctgtcctt gctaccatag tatgggctgt gtccctggcc gtctccatcc ctgatattgt cttgtacag acacatgaaa atcccaaggg tgtgtggaac tgccacgcag atttcggcgg gcattgggacc atttgggaagc tcttctctcg	Homo sapiens	
395	17345	G Protein- Coupled Receptor D6	NM_001296			Homo sapiens

Homo
sapiens

P

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 NP_001287.2 MAATASQPPL ATEDADSENS SFYYDYLD VAFMLCRKDA VVSEGVFLP VFYSLIFVLG P
 LSGNLLILMV LRLYVPRRM VEIYLNLAI SNLLFLVTLF FWGISVAWHW VFGSFLCKMV
 STLYTINFYS GIFFISCMSL DKYLEIVHAQ PYHRLRTRAK SLLIATIVWA VSLAVSIPDM
 VFVQTHENPK GWNCHADFG GHGTWKLFL RFQNLGLLFL LPLIAMIFY SRIGCVLVR
 RPAGQGRALK IAAALVWAF VLWFPYNLTL FLHTLLDLQV FGNCEVSQHL DYALQVTEI
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 GMNDLGERQS ENYPNKEDVG NKSA

NP_001287.2

G Protein-
Coupled
Receptor D6

17345

Homo
sapiens

A

cgctccccgc tccctggtct gcgcgcgcc cggggaagaa gagacagggg tgggggttgg A
 gggaagcgag agagaggggg agagaccctg gccaggtggt agcctggatt cgagggggagg
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NM_001470

Gaba (b)
Receptor 1

17535

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400	17666	Glucagon-Like Peptide 1 Receptor	NP_002053.1	<p>gccaattact actgggtctt ggtggagggc gtgtacctgt acacactgct ggccttctcg</p> <p>gtcttatctg agcaatggat cttcaggctc tacgtgagca taggctgggg tgttccctcg</p> <p>ctgtttgttg tcccttgggg cattgtcaag tacctctatg aggaacaggg ctgctggacc</p> <p>aggaactcca acatgaacta ctgggtcatt atccggctgc ccattctctt tgccattggg</p> <p>gtgaacttcc tcatctttgt tgggtcattc ttgctctggt tatecaaat gaaggccaat</p> <p>ctcatgtgca agacagacat caaatgcaga cttgtccaagt ccacgctgac actcatcccc</p> <p>ctgctgggga ctcatgaggt catctttgcc ttgtgatgg acgagcacgc ccgggggacc</p> <p>ctgcgcttca tcaagctgtt tacagagctc tcttcacat ccttcacagg gctgatggtg</p> <p>gocataatat actgctttgt caacaatgag gtccagctgg aatttcgga gagctgggag</p> <p>cgttgggcgc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt</p> <p>cccaccagca gcctgagcag tggagccacg gggggcagca gcatgtacac agccacttgc</p> <p>caggctcctt gcagctgaga ctcagcgcc tgccctcctt ggggtccttg ctgcagccgg</p> <p>gtggccaatc cagctcccc cacaataatc</p> <p>MACAPGPIRL ALLLGMVGR AGPRPQATV SLWETVQKWR EYRRQQRSL TEDPPPATDL P</p> <p>FCNRTFDEYA CWPDGEPSF VNVSCPWYLP WASSVPQGHV YRFCTAEGIW LQKDNSSLPW</p> <p>RDLSECEESK RGRSSPEEQ LLFLYIYTV GYALSFALV IASAILLGR HLHCTRNYIH</p> <p>LNLFAFILR ALSVFIKDA LKWMYSTAAQ QHWDGLLSY LDSLSCLVF LLMQYCVAAAN</p> <p>YYWLLVEGVY LYTLIAFSLV SEOWIFRLYV SIGWGVPLLF VVFWGIVKYL YEDEGCWTRN</p> <p>SNMNYWLIIR LPILFAIGN FLIFVRVICI VSKLKANLM KTDIKICRLA KSTLTILPLL</p> <p>GTHEVIFAFV MDEHARGTLR FIKLFTLSF TSFQGLMVAI LYCFVNNEVQ LEFRKSWERW</p> <p>RLEHLHIQRD SSMKPLKCP T SSSLSSGATAG SSMYATATCOA SCS</p>	Homo sapiens
401	18471	G Protein-Coupled Receptor LOC51210	NM_016372	<p>gccttgacac tggagatgct tagctgaggg ggtggctttg ttagactatt tgcaggctcg A</p> <p>gagatagagc ctgagatggg ggaactgggc ctgctctggg ggaattgggtc gtgacctgtg</p> <p>tggagcccca cactgagctg cagtgggttg ggaagggtgt ttacaggggt gctctgtgca</p> <p>gcccctctga ttttcccttg ggaagctccag gtcacgggga aggaagacag tggcccaggc</p> <p>cacacagctc actggggcgc tctactccc caatgggagc acagcgctac cccacccct ggcacaaaac</p> <p>ctgagggagg tgaacttggc ctaactgctg cctgctgctg ctctacgaag acattggcac ctcagagggtc</p> <p>acagtggtgc acctctgtg gctcatcccc aatgtgctct tctcatctt cctgctctgg</p> <p>aagcttccat ctgctcgggc gaagatccgc ggcgtgggtg ggcattgccc gcccatctt taccacttc</p> <p>tacatcctgg tgtttgttgt cgaagctgc aactgttgt gataagatcc tgtgggagat caccgcttc</p> <p>gtgagcacct cgaagctgc cactgtgctc atctgggc atctgggc tggcctttgg caactgggag</p> <p>ttcctgctgg ccataacag ggtgtgctg atcctggcc atcaccacag tctgttccct ggcctactct</p> <p>agtaagtcca gataacag ggtgtgctg atcctgtac cctgatgccc atctctcag tgaggacttt</p> <p>gtcacccagg ggaacctgga gatcctgtac cgcaggttc tggctggtca gctctgctt cttcttctg</p> <p>aatatatag gccatggggg ccttcccaag acccgcgtga aggaagcgt ctcctgcct</p> <p>gtctactctc tgggtgtcat ccttcccaag acccgcgtga aggaagcgt ctcctgcct</p> <p>tctcggagga gctttacgt gtatggggc atctctggcac tgcctcaacct actgcagggg</p> <p>ctggggagtg tgcgtgtgtg cttcgacatc atcagggggc tctgctgtgt agatgccaca</p> <p>accttctgt acttcagctt cttogctccg ctcactacg tggcttctc cgggggcttc</p> <p>ttcgggtcgg agcccaagat cctcttctcc tacaatgcc aagtggacga gacagaggag</p>	Homo sapiens

402	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	MDTLEEVTWA NGSTALPPPL APN1SVPHRC LLLLYEDIGT SRVRYWDL LLIPNVLFILF P	Homo sapiens
				LMWKLPSARA KIRITSSPIF ITFYILVFV ALVGIARAVV SMTVSTSNAA TVADKILWEI	
				TRFFLLAIEL SVIILGLAFG TWESKSSIKR VLAITTVLSL AYSVTQGTLE ILYPDAHLA	
				EDENIYGHGG RQFWLVSSCF FFLVYSLVI LPKTPLKERI SLPSRRSFYV YAGILALLNL	
				LQGLGSVLIC FDIIEGLCCV DATFLYFSF FAPLIYVAFI RGFESEPKI LFSYKQCVDE	
				TEEPDVHLPO PYAVARREGL EAAGAAGASA ASYSSTQFDS AGGVAYLDDI ASMPCHTGS	
				NSTDSERWKA INA	
403	19072	G Protein-Coupled Receptor Ls19072	LG100650	agtgtgagca ggcggctgcc tggcagtgca gtgggctggc tggatgtgg gggcctctcc A	Homo sapiens
				ctgtgtggca atgcctgggg catcctcagc gttggcgcca agcagaagaa gtggaagccc	
				tggagttcc tgggtgtgac actgcggcc accacatgc taaatgtggc cgtgccatc	
				gccactact cgtgtgtgca gctgcggcgg cagcgcccc acttcagatg gaatgaggt	
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405	19501	Ls19072	G Protein-Coupled Receptor KIAA0758	AB018301	<p> GSVAMGVICT AIALFQTLAV QVGRQADRRRA FTVPTIVVED AQKRRSSID GSEPAKTSLQ TTGLVTTTIVE IYDCIMGFVP LVVSFSSLRA DASAPWMAIC VLWCSVAQAL LLPVFLWACD RYRADLKAVR EKCMALMAND EESDDG gtgcaagaag aaaaatagatg ttatgcccac ccaaatatttg gcaaatgaag aatgaaggt A gatgtgcgac acaaatccctg tatctttgaa ctgctgcagt cagggtaatg ttaattggaag caaagttagaa tgggaagcagg aaggaataat aatatattcca ggaacccctg agacagacat agattctagc tgcagcagat acacccctcaa ggctgatgga acccagtgcc caagcgggtc gtctggaaca acagtcacat acactttgtga gtctcatagt gcctatggag ccagaggcag tgcaaacata aaagtacat tcatctctgt ggcacatcta acaataaccc cggaccacat ttctgtttct gagggacaaa acttttctat aaaaatgcac agtgatgta gtaactatga tgaggtttat tgggaacactt ctgctggaat taaaatatac caaagatttt ataccacgag gaggtatctt gatggagcag aatcagttact gacagttcaag acctcgacca gggagtgga tggaaacctat cactgcatat ttagatataa gaattcatat agtattgcaa ccaaagacgt cattgttcac cgcgtgcctc taaagctgaa catcatggtt gatcctttgg aagctactgt ttcatgcagt ggttcccatc acatcaagt ctgcatagag gaggatggag actacaaagt tactttccat atgggttctc catcccttcc tgctgcaaaa gaagttaaca aaaaacaagt gtgctacaaa cacaatttca atgcaagctc agtttctctg tgttcaaaa ctgttgatgt gtgttgctac ttaccaaag ctgctaataa ttcatgttgg agcccatcta tgaagctgaa tctgtgttctt ggggaaaaa tcaatgcga ggaacctcga ataggtgtcg gagagccggg gaaagtcac cagaagctat gccgttctc aaagtttccc agcagccctg agagtcctat tggcgggacc atcacttaca aatgtgtagg ctccagtgag gaggaaga gaaatgactg catctctgcc ccaataaaaa gtctgtctca gatggctaag gctttgatca agagccctc tcaggatgag atgtctccta catacctgaa ggaatttctt attagcatag acaaagcga acatgaaatc agctcttctc ctgggagctc tggagccatt attaacatcc ttgatctgct ctcaacagtt ccaacccaag taaattcaga aatgatgacg cagtgctctt ctacgggttaa tgtcatcctt ggaagcccg tcttgaacac ctggaaggtt ttacaacagc aatggacca tcagagttca cagctactac attcagtgga aagattttcc caagcattac agtcaggaga tagccctcct ttgtccttct ccaaaactaa tgtgcagatg agcagcacgg taatcaagtc cagccaccca gaaacctatc acagaggtt ttgtttccca tactttgacc tctggggcaa tgtggtcatt gacaagagct atctagaaa ctgagcagtc gattcgtcta ttgtcaccat ggctttccca actctccaag ccatccttgc tcaggatatac caggaataa actttgcaga gagcttagtg atgacaacca ctgtcagcca caatacgaat atgctcttct ggaacttcag gacttttaag aacaatagcc ctacagggcg cgaacagaa tgtgtcttct ggaacttcag gcttgccaac aacacagggg ggtgggacag cagtgggtgc tatgttgaag aagtgatgag ggacaatgtc acctgtatct gtgacacact aacatcattc tccatcctca tgtccccga ctccccagat cctagtcttc tcttggaat actcctggat attatttctt atgttgggtt gggcttttcc atcttgagct tggcagcctg tctagtgtg gaagctgtgg tgtggaaatc ggtgaccaag aatgggactt cttatatgag ccaacactgc atagtgaata tgcctgcctc cctctgtgtc gcaacacct ggttcattgt ggtcgtgtgc atcaggaata atcgtacat actctgcaag acagcctgtg tggctgccc accttcttct cacttcttct acctcagcgt ctctctctgg atgctgacac tgggacctcat cgcttggtt tcaattctga </p>	Homo sapiens
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406	19501	G Protein- Coupled Receptor KIAA0758	BAA34478.1	<p> tgaacaaagc aggtccactc agaaagccat tgcttctgt cttggctatg gctgccact tgccatctcg gtcatacgc tggagccac ccagccccg gaagtctata cgaggaagaa tgtctgttgg ctcaactggg aggaacacaa ggccttgcg gcttggcca tccagcact gatcattgtg tgggtgaaca taaccatcac taattgtgtc atcaccaaga tccagagcc ttccattgga gacaagccat gcaagcagga gaagcagc cttgttcaga tccagaaag cattggggtc ctcaacccac tcttgggect cacttgggtt ttgtgtctca ccactgtgtt ccagggacc aacttgtgt tccatatcat atttgccatc ctcaatgtct tccagggtt attcatttta ctcttggat gctctggga tctgaagga caggaagctt tgcgaataa gtttccattg tcgagatggt cttcacagca ctcaaatgc acatccctgg gttcatccac acctgtgtt tctatgatt ctccaatgc aaggagattt acaatttgt ttgtaaaac aggaacgtat aatgtttcca cccagaagc aaccagctca tccctggaaa actcatccag tgcttctcg ttgtcaact aagaacagga taatccaacc tacytgacct ccgagggaca tgggtgtgc ttttaaaaag agatgcttgc aaagcaatgg ggaacgtgtt ctcggggcag gtttccggga gcagatgcca aaaagacttt tctatagaga agaggcttcc tttgtgata acagaataaa aataattgtt atgttctgt ttgttccctc cccctcccc ttgtgtgata ccacatgtgt atagtattta agtgaacctc agccctcaa ggcctcaact ctctgtctat attgtaatat agaatttcga agagacattt tcaattttta cacattgggc acaagataa gcttgatta aagtagtaag taaaaggcta cctagaaaat acttcagtga atttaagaa ggaaggaagc aggaaggaag ggaagaaagg gagggaagaa ggaagaaagg gaaagaaag aaaaagagaa agatgaaaat aggaacaaat aaagacaaac aacattaaagg gccatattgt aagatttcca tgttaattgat ctaataatat cactcagtcg aacattgaga attttttt taatggctca aaaaaggaaa ctgaagcaa gtcattggga atgaatactt tgggcagtat cttctgatg tcttcttagc taagaggagg aaaaaaggc tgaataataa gggaggaaat tcttcatca gaacgacttc aagtggataa caatatattt aagaaatgaa tggaaaggaaa tatgatcctc ctgagactaa ctttgtatgt taaggttga actaagtga tgcattcga gaggaagtat tataaagata tgcattaga tccaagtgtt gattaaattt ttatagtta tcagaaaagc cttatatatt agttgttcc acattttgaa agcaaaaaat atatatgga tataaccttc aattgcaaa ttgatattgt tgcactgaag acagaccctg tcatatat aatggcttca agcaggtact tctctgtgca ttatagaata gattttaata atctatagc attgtatatt attattgtg ttgtcactgt tattattatt ttggatactg gcccttgggtg tgttgcatag ctcctatgt attctctgt tccatcttta agtcccaga ccaatataca ttaagagttt tgcattgtct aattgtgtt taatccaac acgtggaaag ctctggaaa gaaattttac attcgggtgt tctgtgtctc taatgacact tgaacttgtt gaacaaatgg cagagccttt ccaaggatt tgattgtttg tgaattatct gcatgtgtgc ttttttttg tgtgtatttc attaaaaaat ataatattt atg CKKKIDVMP I QILANEEMKV MCDNPFVSLN CCSQNVNWS KVEWKQEGKI NIPGTPETDI P DSSCSRYTLK ADGTCPSGS SGTVITYCE FISAYGARG ANIKVTFISV ANLITPDPI SVSEQNFSI KCISDVSNYD EYVWNTSAGI KIYQRFYTR RYLDGAESVL TVKTSTREWN GTHYCIERYK NSYSIATKDV IVHPLPLKLN IMVDPLEATV SCGSHHIK CIEDGDYKV TFHMGSSSLP AKEVNNKQV CYKHNFNASS VSWCKTVDV CCHFTNAANN SVWSPSMKLN LVPGENITCQ DPVIGVGEPG KVIQIKCRFS NVPSSPESPI GGTITYKCVG SQWEKRNDC </p>	Homo sapiens
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407	21632	G Protein- Coupled Receptor Ls21632	AB040964	ISAPINSLQ MAKALIKSPS QDEMLPTYLK DLSISIDKAE HEISSSPGSL GAINILDLL STVPTQVNSE MATHVLSTVN VILGKPVLTN WKVLQQQWTN QSSQLLSHVE RFSQALQSGD SPPLSFQTN VQMSSTVIKS SHPETYQORF VFPYFDLWGN VVIDKSYLEN LQSDSSIVTM AFPTLQAILA QDIQENNFAR SLVMTTIVSH NTFKNNSPSGG ETCKVFNFR LANNTGGWDS SGCYVEEGDG DNVTICIDHL TSFSLIIMSG SPDPSSLLGI LLDIISYGV GFSILSLAAC LVVEAVVWKS VTKNRTSYMR HTCIIVNIAAS LLVANTWFIV VAAIQDNRYI LCKTACVAAT FFIHFFYLSV FFMMLTLGLM LFYRLVFIHL ETSRSTQKAI AFCLGYGCPL AISVITLGAT QPREVYTRKN VCWLNWEDTK ALLAFAPAL IIVVNITIT IIVITKILRP SIGDKPCKQE KSSLFQISKS IGVLTPLLGL TWGFGLTTFV PGTNLVFIHI FAILNVFQGL FILLFGCLWD LKQVEALLNK FSLSRWSSQH SKSTSLSGST PVFSMSSPIS RRFNNLFGKT GTYNVSTPEA TSSSLENSSS ASSLLN	Homo sapiens
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Homo
sapiens

P

BAA96055.1

G Protein-
Coupled
Receptor
Is21632

21632

408

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Homo
sapiens

A

NM_020400

G Protein-
Coupled
Receptor
GPR92/GPR93

22315

409

410	22315	G Protein- Coupled Receptor GPR92/GPR93	NP_065133.1	MLANSSSTNS SVLPSPDYRP MCNLAASDLL FTLSLPVRLS AAIVHPLRLR HLRPRVARL DELWKGRLLP LVLLAEALGF VIFLLCFVPY NSTLAVYGLL AEGFRNTLRG LGTPHRARTS SSFTQCPQDS AL	gtgatgggtgc tgcgtggcgg cgccaaactgc gtgctggacc cgctgggtga ctactttagc gccagggctc tccgcaaac cctgcgcggc ctgggcactc cgcaccgggc caggacctcg gccaccaacg ggacgcgggc ggcgctcgcg caatccgaaa ggtccgccgt caccaccgac gccaccaggc cggatgcgc cagtcagggg ctgctccgac cctccgactc ccactctctg tcttctcca cacagtgc ccaggattcc gccctctga MLANSSSTNS SVLPSPDYRP THRLHLVYS LVLAAGLPLN ALALWVFLRA LRVHSVSVY P MCNLAASDLL FTLSLPVRLS YVALHWPFP DLICQTGTAI FQNMVYGSCI FLMLINVDRY sapiens AAIVHPLRLR HLRPRVARL LCLGVWALIL VFAVPAARVH RPSRCRYRDL EVRLCFESFS DELWKGRLLP LVLLAEALGF LLPLAAVYS SGRVFWTLAR PDATQSORRR KTVRLLIANL VIFLLCFVPY NSTLAVYGLL RSKIVAASVP ARDRVRGVLM VMVLLAGANC VLDPLVYYS AEGFRNTLRG LGTPHRARTS ATNGTRAALA QSERSAVTTD ATRPDAASQG LLRPSDSHSL SSFTQCPQDS AL	22925	Latrophilin- 3	NM_015236	gaaaaacacg agccgtgttg tatgtggagg ccccggtgc tgggtgtaat tctcgttctc A tctgtgaggt gaggcagatg aagccatttc gtggttctgc tgagcatggt cttggcagtg sapiens ttttgggag catcacactg tgcctctttt gtaacttgc tagcccgcc tgtcttttgc cccggtctca atggttgat tgtggaaact gcaccgcct ctaggttgtt gagcaactga tgggacgac tcagggaccg gcgtttacga agaaaatgtt taatttggta aattggagga aaaaacatg gatttttagc aattgaagag caaataaagg ttccagattt gggtatttgg tgttctgtt ttggagaaat tattcttttt ctttttaatt tgaagaaaaa tcatcagttc tgggaatacag aagagaaact agaaataac gtatttgtt tcaatttga acagtcattc ttgaggaata ctccatacct gactagacag ccatgtggcc atcgcagcta ctaattttca tgatgtcttt agtccaata attcatgctt tccgctgtc tccaatltcca atggtctgtg tccgcagaga gctatctgt gagagctatc ctatagagct tgcgtgtcca ggaacagacg tcatcatgat agaaagtgc aactatggca ggactgatga caaatittgt gactctgacc ctgctcagat ggagaatac cgtgtttatc tgcagatgc ctataagatt atgtctcaaa gatgcaataa cagaaccccg tgtcagtggt tggcaggtcc ttagtgtttt ccagaccctg gtccaggaaac ctataaatac cttgaagtgc agtatgaatg tgtcccttac aaagtggaa aaaaagtitt tctttgtcct ggactactaa aaggagtata ccagagtga catttgtttg agtccgacca ccaatctggg gcgtgggtgca agaccctct gcaggcatct gacaagattt attatatgcc ctggactccc tacagaactg ataccctgac tgagtattca tccaaggatg acttcattgc tggaaagacca actacaacct acaagctccc tcataggggt gatggcacag gattttagt gtatgatgga gctttgttct tcaaaaaaga gcgcaccagg aacatagtaa agtttgattt gggactagtg ataaagagtg gagaggctat catagcaaat gccaatacc atgataacct ccttaccga tggggaggca aatctgacat agacctggca gtatgagaga atggggtatg ggtaactat gcaacagaac aaacaatgg taaattgtc attagtcaat tgaacacctta caccctacg atcgaaaggaa catgggatc tgcatatgat aaaaggtcag cttccaatgc ctttatgatt tgtggaattc tgtatgtggt caaatctgta tatgagatg atgacaatga ggctactgga aataagattg actacattta caacactgac caaagcaagg atagtttgggt ggatgtaccc ttctctaatt catacagta cattgagct gtgattaca accccgaggga caacctactt tatgtatgga ataactatca cgtcgtgaaa tattctttgg attttggacc tctggatagt agatcagggc aggcacatca tggacaagtt tcatacattt
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 412 22925 latrophilin- NP_056051.1 MWPSQLLIFM MLLAPIIHAF SRAPIMAVV RRLSCESYP IELRCPGTDV IMIESANYGR P Homo
 sapiens
 3 TDDRKICSDP AQMENIRCYL PDAYKIMSQR CNNRQTCAV AGPDVFPDPC PGTYKYLEVQ

413	25359	G Protein- Coupled Receptor GPR34	NM_005300	<p>YECVPYKVEQ KVFCLPCGLLK GVIQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPYRTD</p> <p>TLTEYSSKDD FIAGRPTTY KLPFRVDGTG FVYDGLAFF NKERTRNIVK FDLRTRIKSG</p> <p>EAIIANANYH DTSPYRWGGK SDIDLAVDEN GLWVIYATEQ NNGKIVISQL NPYTLRIEQT</p> <p>WDTAYDKRSA SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVPFFNS</p> <p>YQYIAADVYN PRDNLLYWN NYHVVKYSLD FGPLDSRSQ AHGQVSYIS PPIHLDSELE</p> <p>RPSVKDISTT GPLGMGSTTT STTLRTTTL SGRSTTPSVS GRNRSTSTP SPAVEVLDDM</p> <p>TTHLPSASSQ IPALEESCEA VEAREIMWFK TRQGQIAKQP CPAGTIGVST YLCLAPDGIW</p> <p>DPQGPDLNSC SSPWNHITQ KLSGETAAN IARELAETR NHLNAGDITY SVRAMDQLVG</p> <p>LLDVQLRLNT PGGKDSAAARS LNKLOKRERS CRAYVQAMVE TVNLLQPOA LNAWRDLTTS</p> <p>DQLRAATMLL HTVEESAFVL ADNLLKTDIV RENTDNIKE VARLSTEGNL EDLKFPENMG</p> <p>HGSTIQLSAN TLKQNGRNGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSHVIVNSP</p> <p>VITAAINKEF SNKVYLADPV VFTVKHIKQS EENFNPNCSF WSKYKRTMTG YWSTQGCRLI</p> <p>TINKTHTTCS CNHLTNEAVL MAHVEVKHSD AVHDLILDVI TWVGILLSIV CLLICIFTFC</p> <p>FFRGLQSDRN TIHKNLCISL FVAELLFLIG INRTDQPIAC AVFAALLHFF FLAFTWMFEL</p> <p>EGVQLYIMLV EVFESEHSRR KYFYLVGGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF</p> <p>IWSFIGPATL IIMLVIFLG IALYKMFHHT AILKPESGCL DNINYEDNRP FIKSWVIGAI</p> <p>ALLCLLGLTW AFGLMYINES TVIMAYLFTI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT</p> <p>HCCSGKSTES SIGSGKTSQS RTPGRYSTGS QSRIRRMWMD TVRKQSESSF ITGDINSSAS</p> <p>LNREPYRETS MGVKLINIAYQ IGASEQCQGY KCHGYSTTEW</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtca gcagctggcc ttactctccc A</p> <p>cacagaatgc gctttataac caatcatagc gaccaaccgc cacaacactt ctgagcaaca</p> <p>ccaaatgtta ctacctgtcc catggatgaa aaattgctat ctactgtgtt aaccacatcc</p> <p>tactctgtta ttttcatcgt gggactgggt ggaacataaa tcgcccctcta tgtatttctg</p> <p>ggtattcacc gtaaaagaaa ttccattcaa atttatctac ttaacgtagc cattgcagac</p> <p>ctctactaca tcttctgcct cctttccga ataagtatc atattaacca aaacaagtgg</p> <p>acactaggtg tgattctgtg caaggttggtg ggaacactgt tttatatgaa catgtacatt</p> <p>agcattattt tgcttggtt catcagtttg gatcgctata taaaaattaa tcggtctata</p> <p>cagcaacgga aggcaataac aaccaacaa agtatttatg tctgttgtat agtatggatg</p> <p>cttgctcttg gggattcct aactatgatt attttaacac ttaagaaagg agggcataat</p> <p>tccacaatgt gtttccatta cagagataag cataacgcaa aaggagaagc catttttaac</p> <p>ttcattcttg tggtaatgtt ctggctaatt ttcttactaa taatccttcc atatattaag</p> <p>attgggaaga atctattgag gatttctaaa aggaggtcaa aatttctaa ttctggtaaa</p> <p>tatgccacta cagctcgtaa ctcttttatt gtacttatca tttttactat atgttttgtt</p> <p>ccctatcatg cctttcgtt catctacatt tcttcacagc taaatgtatc atcttgctac</p> <p>tggaagaaga ttgttcacaa aaccaatgag atcatgctgg ttctctcatc tttcaatagt</p> <p>tgcttagatc cagtcagtga tttcttgatg tccagtaaca ttcgcaaaat aatgtgcaa</p> <p>cttcttttta gacgatttca aggtgaacca agtaggagtg aaagcacttc agaatttaa</p> <p>ccaggatact cctgcgatga tacatctgtg gcagtgaaaa tacagtctag ttctaaaaagt</p> <p>acttga</p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p>MRSHITMTT TSVSSWPYSS HMRFITNHS DQPPQNFSA PNVTTCPMDE KLLSTVLTTTS P</p> <p>YSVIFIVGLV GNIALYVFL GIHRKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW</p>	Homo sapiens

416	30698	G Protein- Coupled Receptor Is30698	CAC27252.1	<p>ccctggccag ctgggggctg tagggccctg ctgggcttgg tcgtcttca ctctgaggc ctgctctg gctccatagc tcaagctcc atcactctg ctggatctg ggtactttgg acagtgggg ttgatccaa ttttaggggt aggggtggg gtggagtggt gagtgtgggt tggcaggag aagaatgagt ctacttggg gacaataag tcatggtacg ttcctaaag atagggaac gaagaaaagc aagagaactg ttaataatgc tgattatttt agtctatttt agaccttgag taaactaatt tagcttctag gattccaagt tccattattg tgaacacagg aaaaaaatt ctgtgaggt ttaactgttg tgtgtttgag tttactgeac atgtttgtg ttgtgtat gtgtcttta aaatactat atataaagaa gattctgggt gttattttag acataaacga atatatgtac ctttcac</p> <p>MKMSQATMI CCLVFFLSTE CSHYRSKIHL KSYSEVANH LDTAAISNWA FIPKNASSD P LIQSVNLFFAR QLIHNNSEN IVNELFIQTK GFHINHNTSE KSLNFSMSMN NTEDILGMV QIPRQELRKL WPNASQAISI AFPTLGAILR EAHQNVSLP RQVNGVLVSV VLPERLQEI LTFEKINKTR NARAQCVGWH SKKRWDDEKA COMMLDIRNE VKRCNNTSV VMSFSILMSS KSMTDKVL DY ITCIGLSVSI LSLVLCIIIE ATWMSRVVVT EISYMRHVCV VNIASVLLTA NWFIIIGSHF NIKAQDYNMC VAVTFFSHFF YLSLFFWMLF KALLIIYGIL VIFRRMKSR MVIGFAIGY GCPLIIAVTT VAITEPENGY MRPEACWLNV DNTKALLAFA IPAFVIVAVN LIVVLVAVN TQRPISIGSSK SQDWIIMRI SKNVAILTPL LGLTWGFGIA TLIEGTSLTF HIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRMSSLKKG SRAAENASLG PTNGSKLMNR QG</p>	Homo sapiens
417	30875	G Protein- Coupled Receptor GPR87/GPR95	NM_023915	<p>ggcacgaggg tttcgttttc atgctttacc agaaaatcca cttccctgcc gaccttagt A tcaaaagcta tttttaatta gagacaagaa acctgtttca acttgaagac accgtatgag gtgaatggac agccagccac cacaatgaaa gaaatcaaac caggaaataac ctatgctgaa ccacgcctc aatcgctccc aagtgtttcc tgacacgcac ctttgcctac agtgcacac aactgaagaa tgggggttcaa cttgacgctt gcaaaattac caaataacga gctgcacggc caagagagtc acaattcagg caacaggagc gacgggccag gaaagaacac cacccttcac aatgaatttg acacaattgt cttgccggtg ctttatctca ttatatattg ggcaagcacc ttgctgaatg gtttagcagt gtggatcttc ttccacatta ggaataaaac cagcttcata ttctatctca aaacatagat ggttgcagac ctcataatga cgctgacatt tccatttcca atagtcctatg atgcaggatt tggaccttgg tacttcaagt ttattctctg cagatacact tcagttttgt tttatgcaaa catgtatact tccatcgtgt tccctgggct gataagcatt gatcgctatc tgaagggtgt caagccattt ggggactctc ggatgtacag cataaccttc acgaaggttt tatctgtttg tgttgggtg atcatggctg tttgtcttt gccaaacatc atcctgacaa atggtcagcc aacagaggac aatatccatg actgctcaaa acttaaaagt ccttggggg tcaaatggca tacggcagtc acctatgtga acagctgctt gttgtggcc gtgctggta ttctgatcgg atgttacata gccatatcca ggtacatcca caaatccagc aggcaattca taagtcagtc aagccgaaag cgaaaacata accagagcat cagggttgtt gtggctgtgt tttttacctg ctttctacca tatcacttgt gcagaattcc ttttactttt agtcacttag acaggctttt agatgaatct gcacaaaaaa tcttatatta ctgcaaaagaa attacacttt tctgtctgc gtgtaattgt tgcctggatg caataattta ctttttcagt tgtaggctcat tttcaagaag gctgttcaaa aaatcaacata tcagaaccag gagtgaagc atcagatcac tgc aaagtgt gagaagatcg gaagtctgca tatattatga ttacactgat</p>	Homo sapiens

418	30875	G Protein- Coupled Receptor GPR87/GPR95	NP_076404.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaataa aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTIAKL PNNELHGQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILIN P GLAVWIFFHI RNKTSIFIFL KNIWVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV EGLISIDRY LKWKPFPGDS RMYISITFTKV LSVCVWVIMA VLSLPNIILT NQPTEDNIH DCSKLKSPLG VKWHTAVTVV NSCLFVAVV ILIGCYIAIS RYIHKSSRQF ISQSSRRKRH NQSIWVAVV PFTCFLPYHL CRIPFTFSLH DRLLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN ITRSESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtcgt ccagcatgct ctgcccaccc cagcccgagg tgcactgacc A atgagccctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggctgctcat catcacccag ttcatcgcca tcatgtcat caccatttt gtctgctcg gaaacctggt catcgtggtc acctgtgaca agaagtcta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tcttgggtg agtgtggtg ctgcccctttg tggtagcag ctccatccgc agggaatgga tcttgggtg agtgtggtg aaattctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc attgccatcg accgtacta tgcgtgctcg taccatggtg tgaacccat gaagatcaca gggaaccggg ctgtgatggc actgtgtac atctggcttc actogctcat cggctgctg ccacccctgt ttggttggtc atccgtggag tttagcagat tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctgggtgc cctcttcccc ttcttggtca tgcgtggtg ctatggcttc atcttccgc tggccagggt caaggcacgc aaggtgcat gtggcacagt cgtcatcgtg gaggaggtg ctacagaggac cggggtggtc aactecagca cctccacctc ctcttcaggc agcaggagga atgccttca ggggtggtc tactggcca accagtga aacctcacc agcctcacc accatcctg tggctcctg tgccttcag gtcacctgg gccctacat ggtgtgcatc gctctgagg cctctgggg gaaaagctcc gtctccccga gctggagac ttgggccaca ttctgcaaa gtaactaggc tgcgtgccac ccctgatct atggactctg gaacaagaca gtctgcaaa aactactggg catgtgcttt gggacccggt attatcggga accatttgg caacgacaga ggaactccag gctcttcagg atttccaa ca gatacacaga cctgggctcg tccccaccc tcaactgcgt catggcagg ggacagcccc tggggcacag cagcagcacg ggggacactg gctcagctg cccccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtcgc gtttccctg tgttgcgttt ccccctgtc gcgtttcccc tgtgcaggct caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
419	31568	G Protein- Coupled Receptor RE2	NM_007369	MSLNSSLSCR KEISNLTEEE GEGGVITQ FIAIIVITF VCLGNLVIV TLYKSYLLT P LSNKFVESLT LSNFLLSVLV LPFVVTSSIR REWIFGWVC NFSALLYLLI SSASMLTLGV IAIDRYAYVL YPMVYPMKIT GNRAMALVY IWLHSLIGCL PPLFGWSSVE FDEFKMMCV AWHREPGYTA FWQIWCALFP FLVMLVCYGF IFRVARVKAR KVHCGTVIV EEDAQRTGRK NSSTSTSSSG SRNAPQGVV YSANQCKALI TILVVLGAFV VTWGPYMWVI ASEALWGKSS VSPSLETWAT WLSFASAVCH PLIYGLWNTK VRKELGMC FGDYRYREP FV QRQRTSRLFS ISNRITDLGL SPHLTALMAG GQPLGHSSST GDTGFSQSQD SGNLRAL atggacacct cccggctcgg tgcgtcctg tctctgctg tgcgtgca gctggcgacc A gggggcagct ctcccaggct tgggtgtgtg ctgagggggt gccccacaca ctgtcattgc	Homo sapiens
420	31568	G Protein- Coupled Receptor RE2	NP_031395.1	MSLNSSLSCR KEISNLTEEE GEGGVITQ FIAIIVITF VCLGNLVIV TLYKSYLLT P LSNKFVESLT LSNFLLSVLV LPFVVTSSIR REWIFGWVC NFSALLYLLI SSASMLTLGV IAIDRYAYVL YPMVYPMKIT GNRAMALVY IWLHSLIGCL PPLFGWSSVE FDEFKMMCV AWHREPGYTA FWQIWCALFP FLVMLVCYGF IFRVARVKAR KVHCGTVIV EEDAQRTGRK NSSTSTSSSG SRNAPQGVV YSANQCKALI TILVVLGAFV VTWGPYMWVI ASEALWGKSS VSPSLETWAT WLSFASAVCH PLIYGLWNTK VRKELGMC FGDYRYREP FV QRQRTSRLFS ISNRITDLGL SPHLTALMAG GQPLGHSSST GDTGFSQSQD SGNLRAL atggacacct cccggctcgg tgcgtcctg tctctgctg tgcgtgca gctggcgacc A gggggcagct ctcccaggct tgggtgtgtg ctgagggggt gccccacaca ctgtcattgc	Homo sapiens
421	36534	G Protein- Coupled	NM_003667	atggacacct cccggctcgg tgcgtcctg tctctgctg tgcgtgca gctggcgacc A gggggcagct ctcccaggct tgggtgtgtg ctgagggggt gccccacaca ctgtcattgc	Homo sapiens

Receptor
GPR49

gagcccgacg gaggatgtt gctcagggtg gactgtctccg acctgggggt acctggagctg ctcgagagctg
ccttccaaac tcaagctctt cactctctac cttagacctca gtagaacaac catcagtcag
ctgtctccga atccccctgc cagttctccg ttcctggagg agttacgtct tgcgggaaac
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gcttttagaa gtttatcggc attgcaagcc atgaccttgg ccttgaacaa aatacaccac
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ccttctctta ttacaataca tttctatgac aatccccatc aatttgggg gagatctgct
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tttggcagct ttgcacgaca tgggtgcctgg tgggagaatg ggggtgggtt ccattgtcatt
ggtttttgt ccatttttgc ttcagaataca tctgttttcc tgcctactct ggcagccctg
gagcgtgggt tctctgtgaa atattctgca aaatttgaac cgaagctcc atttctagc
ctgaaagttaa tcattttctt ctgtgcccctg ctggccttga caatggccc agttccccctg
ctgggtggca gcaagtatgg cgcctccccct ctctgcccctg ctttgccttt tggggagccc
agcaccatgg gctacatggt cgtctctatc ttgtctaat ccttttgcct cctcatgatg
accattgcct acaccaagt ctactgcaat ttggacaagg gagacctgga gaataattgg
gactgctcta tggtaaaaaa cattgcccctg ttgctcttca ccaactgcat cctaaactgc
cctgtggctt tcttctctt ctctcttcta ataaacctta catttatcag tctgaagta
attaagtta tctcttctgt ggtagtccca ctctctgcat tctcaatcc ccttctctac
atcttgttca atctctactt taaggaggat ctggtgagcc ttgagaagca aacctacgtc
tggacaagat caaacacccc aagcttgatg tcaattaaact ctgatgatgt cgaaaaaacag

422	36534	G Protein- Coupled Receptor GPR49	NP_003658.1	<p>tctgtgact caactcaagc cttggttaacc ttaccagct ccagcatcac ttatgacctg cctcccagtt ccgtgccatc accagcttat ccagtgactg agagctgcca tcttccctct gtggcatttg tcccatgtct ctaa</p> <p>MDTSRLGLVLL LDPVLLQLAT GGSSPRSGVL LRGCPTHCHC EPDGRMLLRV DCSDLGLSEL P PSNLSVFTSY LDLSMNISQ LLPNPLPSLR FLEELRLAGN ALTYIPKGF TGLYSLKVLN LQNNQLRHVP TEALQNLRSI QSLRLDANHI SYVPPSCFSG LHSRLHLWLD DNALTEIPVQ AFRSLSALQA MTLALNKIHH IPDYAFGNLS SLVVLHLHNN RIHSLGKKCF DGLHSLETLD LNNNLDEFF TAIRTLNLSLK ELGFHSNNIR SIPEKAFVGN PSLLTIHFYD NPIQFVGRSA FQHLPELRTL TLNGASQITE FPDITGTANL ESLLTGAQI SSIPQTVCNQ LPNLQVLDLS YNLLEDLPF SVCQKLQKID LRHNEIYEIK VDTFQQLSL RSLNLAWNKI AIIHPNAFST LPSLIKLDLS SNLLSFPIT GLHGLTHLKL TGNHALQSLI SSENFPPELV IEMPYAYQCC AFGVCENAYK ISNQWNKGDN SSMDDLHKKD AGNFQAQDTS DLEDFLLDFE EDLKALHSVQ CSPSPGPEKP CEHLLDGWL I RIGVWTIAVL ALTCNALVTS TVFRSPLYIS PIKLJIGVIA AVNMLTGVS AVLAGVDAFT FGSFARHGAW WENGVGCHVI GFLSIFASES SVFLLTLAAL ERGFVKYSA KPETKAPFS LKVIILLCAL LALTMAAVPL LGGSKYGASP LCLPLPFGEF STMGYMVALI LNSLCFLMM TIAYTKLYCN LDKGDLENIV DCSMVKHIAL LLFTNCILNC PVAFLSFSS IINITFISPEV IKFILLVWP LPACLNPLLY ILFNPHEKED LVSLRKQTYV WTRSKHPSIM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PPSSVPSPAY PVTESCHLSS VAFVPCI</p>	Homo sapiens
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NM_004736	<p>actagagat gggggcgggc tgctctgaag agacctcggc gggcgcgagg gaggagagaa A ggcgagcgc gggcgcgcc ggggcccctg tgggaggagg tggagtcgc tgttgcgcgc gccgctgta gctgtctggac ccgagtggga gtgaggggga aacggcagga tgaagtctgc cgagcacctc tccgcgcaca tcaactccga gtggagggaag caatacatcc agtatgaggc tttcaaggat atgctgtatt cagctcagga ccaggcacct tctgtggaag ttacagatga ggacacagta aagaggtatt ttgccaaagt tgaagagaag tttttccaaa cctgtgaaaa agaacttgcc aaaatcaaca cattttattc agagaagctc gcagaggctc agcgagggtt tgctacactt cagaatgagc ttcaagtcac actggatgca cagaaagaaa gcaactggtgt tactacgctg cgacaacgca gaaagccagt cttccacttg tcccatgagg aactgttcca acatagaaat attaaagacc ttaactggc cttcagtgag ttctacctca gtctaatcct gctgcagaa c taccagaatc tgaattttac agggtttcga aaaatcctga aaagcatga caagatcctg gaaacatctc gtggagcaga ttggcgagtg gctcacgtag aggtggcccc atthtataca tgaagaaaa tcaaccagct tatctctgaa actgaggctg tagtgaccaa tgaacttgaa gatggtgaca gacaaaaggc tatgaagcgt ttacgtgtcc cccctttggg agctgctcag cctgcaccag catggactac ttttagagct ggctattttt gtggaatatt catgtactag aatattaccc ttgtgcttgc cgtgtattt aaacttgaaa cagatagaag tatatggccc ttgataagaa tctatcgggg tggctttctt ctgattgaat tctttttct actgggcac aacacgtatg gtggagaca ggcctggagta aacctgtac tcatctttga acttaaatccg agaagcaatt tgtctcatca acatctctt gagattgctg gattcctcgg gatattgtgg tgcctgagcc tcttgagcat cttctttgct ccaattagtg tcatccccac atatgtglat ccaattgccc tttatggatt tatgtgtttc tctcttatca accccaccaa aactttctac tataaatccc gggttttggt gcttaaaactg ctgttttcgag tatttacagc</p>	Homo sapiens

424	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	<p>ccccctccat aaggtaggct ttgctgattt ctggctggcg gacagctga acagcctgtc agtgatactg atggacctgg aatatatgat ctgcttctac agtttggagc tcaaatggga tgaagtaag ggcctgttgc caaataattc agaagaatca ggaatttgcc acaatatatac atatggtgtg cgggcccattg ttcagtgcat tccctgttgg cttcgtctca tccagtgccct gcgccgatat cgagacacaa aaaggccctt tccctattta gttaatgctg gcaagtactc cacaactttc ttcattggtgg cgtttgcagc cctttacagc actcacaaag aacgaggtca ctcggacact atgggtttct tttaacctgtg gattgtcttt tatacatca gttcctgcta taccttcac tgggatctca agatggactg gggctctctc gataagaatg ctggagagaa cactttcttc cgggaagaga ttgtataccc ccaaaaagcc tactactact gtgccataat agaggatgtg attctgcgct ttgcttgac tatccaaatc tccattaccc ctacaacttt gttgccctcat tctggggaca tcaattgtac tgccttggc ccaattgagg ttttccggcg atttgtgtgg aacttcttc gcttgagaa tgaacatctg aataactgtg gtgaattccg tgctgtcgg gacatctctg tggcccccct gaacgcagat gacagactc tccatagaaca gatgatggac caggatgatg gggtagcagaa cggccagaag aatcggtcac ggaagtacaa ccagagcata tccctgcgc cgcctgcct cgttctcaca tccaaaggctc gtgacactaa ggtattgata gaagacacag atgatgaagc taacacttga attttctgaa gcttagctta acatcttttg ttttctact ctacaatcct ttctcgcac aacgcaacct ctagtacctt tcagccgaa aacaggagaa aacacataac acatttctcg agctcttccg gatcggatcc tatggactcc aaacaagctc actgtgtttc ttttcttttc ttctggttta attttaattt tctattttca aaacaagtat ttacttcatt tgccaatcag aggatgtttt aagaacaaaa acatagtatc ttatggattg ttacacatca caaggacata gataccctac aggatgaaga acaggcattg caaggacctc ctgatgggac ggtactgaga tatctcggct tccgctcagc ccggttttga atggttgaaa ccggacattg gtttttaaat tttttgtcag ttatgtgga gaatttttt ctttcttca taccagcgc aaaggcactg gccgcacttg caggaaaaagt gcaacttaaa gcagtacctt cattcatgaa gctacttttt aatttgatgt aacttttctt atttgggaa ggtgtgtggtg gtgggtggga aatatgatgt atttgttaca catagttttc tcattattta tgaaccttaa ccatacagaa tgatataact cctgtgcaat gaagtgata acagtataag aaggcaggag aaaaaaaa</p>	Homo sapiens
				<p>SAQDQAPSVE VTDEDTVKRY FAKFEKFFQ P LQSSLDQKE STGVTTLRQR RKPFVHLSHE LNFTGFRKIL KKHDKILETS RGADWRVAHV PPLGAAQAP AWTFRVGLF IYRGFLLIE FILLGINTY GWRQAGVNHV VIPTVYVPLA LYGFVFFLI LLACFFAPIS NSLSVILMDL EYMICFYSLE FADFVLADQL IQCLRRYRDT KRAFPHLVNA VQCI PAWLRF SSCYTLIWDL KMDWGLFDKN FYLWIVFYII STTLLPHSGD IIAITVFAPLE FAMTIQISIT LLEQMNDQDD GVRNRQKNRS VAPLNADDQD DDEANT</p>	

425	40881	Lung Seven Transmembran e Receptor 2 (LUSSTR2)	AX073578	agagatggca gtgagcgaga ggaggggggt cggcgcgggg agccccggg agtgggggca A gcggctactt ctggtgctgc tgttgggtgg ctgctccggg cgcattccacc ggctggcgct gacgggggag aagcgagcgg acatccagct gaacagcttc ggtttctaca ccaatggctc tgtggaggtg gagttagcgt tctgcggtt ggcctccgg gaggcagaag agaagtcctt gtgtgtgggg ttacgtctca gccgggttcg gtctgcaga gttcgctctt attcaaccct ggatttccag gactgcccct tccagaaaaa cagtagcagt ttcttggtcc tgttctctat caacaccaag gatctgcagg tccaggtgcg gaagtatgga gacgagaaga cgttgtttat ctttcccggt ctctcccggt aagcaccctc caaacagggt ctcccgaagc cacaggccac agtccccgc aaggtggatg gcggagggac ctctgcagcc agcaagccca agtcaaacac cgagtgatt cagggtccta gtgggaaggga caagcacctg gtgttgggct tgagccacct caacaactcc tacaacttca gtttccacgt ggtgatcggc tctcaggcgg aagaaggcca gtacagcctg aacttccaca actgcaacaa ttcatgcca ggaaggagc atccattcga catcacggtg atgatccggg agaagaacc cgatggcttc ctgtcggcag cggagatgcc ctttttcaag ctctacatgg tcatgtccgc ctgtctctct gccgctggca tcttctgggt gtccatctct tgcaggaaac cgtacagcgt ctcaagatc cactggctca tggcggcctt ggccttcacc aagagcatct ctctctctct ccacagcact aactactact tcatcaacag ccaggggccac cccatcgaag gccctggcgt catgtactac atcgcacacc tgcgaaggg cgccctctct tcatcacca tgcctctgat tggctcaggc tggccttca tcaagtacgt ctgtcggat aaggagaaga aggtcttttg gatcgtgagc cccatgcagg tcttggccaa cgtggcctac atcatcatcg agtccccgga ggaaggcgc agcactacg tgctgtgaa ggagattttg ttctggttg acctcatctg ctgtgtgctc atctgttcc ccgtagtctg gtccatccgg catctccagg atgctctgg cacagacggg aaggtggcag tgaacctggc caagctgaag ctgttccggc attactatgt catggtcatc tgctacgtct acttaccctg catcatcgcc atctgtctgc agtggtctgt gcccttcag tggcagtggc tgtaccagct ctbgtggag ggtccaccct tggcctctct cgtgctcag ggtacaagt tccagccac agggaacac ccgtacctgc agtgcacca ggagacgag gaggatgttc agatggagca agtaatgacg gactctgggt tccgggaagg cctctccaaa gtcaacaaa cagccagcgg ggggaaactg ttatgatcac ctccacatct cagaccaaag ggtcgtcctc cccagcatt ttcactctt gcccttctc cacagcgtat gtggggaggt ggaggggggt catgtggacc aggcgcccg cttcccgga ccccggttc cggacaagcc catttggaaag aagagtcctt tctcccccc aaatattgg cagccctgtc ctaccctgg gaccacctt ccttccagc tatgtgtaca ataagacca atctgttgg ct	Homo sapiens
426	40881	Lung Seven Transmembran e Receptor 2 (LUSSTR2)	CAC28410.1	MAVSERRGLG RGSPAENGQR LLLVLLGGC SGRIHRLALT GEKRAIQLN SFGFTNGSL P EVELSVLRIG LREAEEKSLI VGFSLSRVRS GRVRSYSTRD FQDCPLQKNS SSFLVLFLIN TKDLQVQVRK YGEQKTLFIF PGLLPEAPSK PGLPKPQATV PRKVDGGGTS AASKPKSTPA VIQPSGKDK DLVLGLSHLN NSYNFSFHV IGSQAEEGQY SUNFHNCNS VPGKEHPFDI TVMIREKNPD GFLSAAEMPL FKLVMMSAC FLAAGIFWVS ILCRNTYSVF KIHWMALA FTKSISLLFH VINYFINSQ GHPIEGLAVM YYIAHLKGA LFFITIALIG SGWAFIKYVL SDKEKKVFGI VIPNQVLAV AYIIIESREE GASDYLWKE ILFLVDLIC GAILFPVWS IRHLQDASGT DGRVAVNLAK LKLFRRHYVM VICVYFTRI IALLQVAVP FQWQLYQLL VEGSTLAFFV LTGYKFQPTG NNPLYQLPQE DEEDVQMEQV MTDGCFREGL SKVKNKTASGR	Homo sapiens

427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
				agccagcccg aggcgcgcgag cggcaggtgt gcacagaggt tctccacttt gttttctgaa A	
				ctcgcggta ggcgtgtttt ctctgtcagg cagtggtggc atgttggcag aactgaagaa	
				gttttactga cgttcaagat attccttgtc atcatttgc ttcatgtcgt tctggtaaca	
				tccctggaag aagatactga taattccagt ttgtcaccac cacttgctaa attatctgtt	
				gtcagttttg cccctcctc caatgaggtt gaaacaaca cctcaatga tgttacttta	
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				gcttcaggcg tcaaacccca gagaaatata tgcaatttgt catctatttg caatgactca	
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				caacatataa cgaatggcac cttaaactgga gtccctgtct taagtgaatt aaaaagctca	
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429 45937 KIAA1624 AF376725 Protein

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431	50847	Neurotensin Receptor type 2	NM_012344	<p> gagtgagagg gagggagcgc cggccgcggg agcggggatgg aaaccagcag cccgcggccc A ccggggccca gctccaaacc ggggctgagc ctggacgccc ggctgggctg ggacactcgc ctctggggcca aggtgctgtt caccgcgtc tacgactca tctgggctg gggcgcgcg ggaatgcgc tgcctgtgca cgtggtgctg aaggcgcggg cggggcgcg cggcgcgctg cgccaccacg tgcctagcct ggctgcgcg ggctgctgc tgcgtgctgt cggcggtgcg gtgagagctt acagcttctg ttggttccac taccctggg tcttcggcg cctgggctgc cgcggtact acttcgtgca ctagctgtgc gctacgcca cgggtgctgag cgtggcaggc ctgagcgccg agcgtgctt agcgtgtgc cagccctgc gtgcccgcag cctgctgacg ccacgcccga cccgtggct ggtggcgctc tctgtggcg cctgctcgg cctcgccctg cccatggccg tcatcatggg gcagaagcac cggcgagcgg gaagccggag cccgctcgc gagtgtgac ggtgctggtg agccgacac cgtcccaagt ctttatccag gtgaatgtgc ttgtgtcctt cgtgctcccc ttggcactaa ctgcttctt gaatggggtc </p>	Homo sapiens

432	50847	Neurotensin Receptor type 2	NP_036476.1	<p>acagtgaacc aactgtctggc cctctgtctcc caagtgcctg ccaattctac cccgggcagc</p> <p>tccaccccca gccgcctgga gctgtctgagt gaggagggtc tcttcagctt catcgtatgg</p> <p>aagaagacct ttatccaggg aggccaggtc agcctgggtg gacataaaga cgtgcgcggg</p> <p>atccgcagcc tccagcgag cgtccagggt ctccagagcca tctgtgtcat gtatgtcatc</p> <p>tgctggctgc cgtaccatgc ccgaggctc atgtactatg acgtacatga tgacgcgtgg</p> <p>actgacccac tgtacaattt ctaccactac ttctacatgg tgaccaaac acttttctac</p> <p>gtcagctcag ctgtgactcc tcttctctac aacgccgtgt cctcctcctt cagaaaactc</p> <p>ttcctggaag ccgtcagctc cctgtgtgga gagcaccacc ccatgaagcg gttacccccg</p> <p>aagccccaga gtccaccct aatggataca gcttcaggct ttggggatcc cccagaaacc</p> <p>cggacctgaa tgtaaatgcaa gaatgaacag aacaagcaaa atgaccagct gcttagtcac</p> <p>ctggcaaac aggtgagcaa cctcatcact aatcattcaa gcttcgcagc cagggcgact</p> <p>tctatcaacc cctgctctgc tgagaacct caagcgcagg gaagccacgt gacccctcct</p> <p>agcctcaggc tccctcgtct gtgtagtgga gataaagaac agcaccatc tcttagtgtt</p> <p>gcctgagact aaagtgccta gcacagaacc tgggtcgtag tagatgctca ataaattttt</p> <p>gctggcacg</p>	Homo sapiens
433	53440	G Protein- Coupled Receptor L553440	AX107037	<p>PSSNPGLSLD ARLGVDTRLW AKVLFALYA LTWALGAAGN ALSVHVVLKA P</p> <p>RAGRAGRLRH HVLSIALAGL LLLLVGPVE LYSFWFHYF WVFGLGCRG YFVHELCAV</p> <p>ATVLSVAGLS AERCLAVCPQ LRARSLTPR RTRMLVALSW AASLGIALPM AVIMGQKHLE</p> <p>ETADGEPEPA SRVCTVLVRN TALQVFIQVN VLVSVFLPLA LTAFLNGTVV SHLLALCSQV</p> <p>PSTSTPGSST PSRLLELSEE GLLSFIWKK TFIQGGQVSL VRHKDVRIR SLQRSVQVLR</p> <p>AIWVMVICW LPYHARRIMY CYVEDDAWTD PLNFIHYFY MVTNLFYVS SAVTPLLYNA</p> <p>VSSSRKLFL EAVSLCGEH HPMKRLPPKP QSPILMDTAS GFQDPPETRI</p> <p>cagagaggct gtatttcagt gcagcctgcc agacctcttc tggaggaga cttggacaaa A</p> <p>ggggtcacac attcctcca taegtgtgga tcccaatggc aatgaatcca cctgtgtctg gtccacagttc</p> <p>agcttcttca tgatgtgtga agaggtcag tctgtgttgg ccttcacata cttcatccta</p> <p>ataggcctcc ctggtttaga taacttgaca atcatctaca ttgtgcggac tgagcacagc</p> <p>taccttattg ctgtgttagg attctttgc atgttticag gcattgacat cctcatctcc</p> <p>ctgcatgagc ccatgtatat ttttgccatc tcttgggttca attccactac catccagttt</p> <p>acctcatcca tgcacaaaat gctggccatc tcttgggttca attccactac catccagttt</p> <p>gatgcttgtc tgctacagat ttttgccatc cactccttat ctggcatgga atccacagtg</p> <p>ctgctggcca tggcctttga ccgctatgtg gccatctgtc accactgcg ccattggccaca</p> <p>gtacttacgt tgcctcgtgt caccaaaatt ggtgtggctg cttgtgtgtcg gggggctgca</p> <p>ctgatggcac ccttctcgtt cttcatcaag cagctgcctt ctgtgcgctc caatatacctt</p> <p>tcccatcct actgcctaca ccaagatgic atgaagctgg cctgtgatga tatccgggtc</p> <p>aatgtogtct atggccttat cgtcatcctc tccgcatgtg gccaggactc acttctcctc</p> <p>tccttctcat atctgcttat tcttaagact gtgtgtggct tgacacgtga agccaggcc</p> <p>aaggcatttg gcacttgctg ctctcatgtg tgtgtgtgtg tcatattcta tgtacctttc</p> <p>attggattgt ccattggtgca tgccttttagc aagcggcgtg actctccgt cccggtcatc</p> <p>ttggccaata tctatctgct ggttctcct gtgtctaac caattgtcta tggagtgaag</p> <p>acaaaggaga ttogacagcg catctctga ctttccatg tggccacaca cgcttcagag</p> <p>ccctagggtg cagtatcaa acttcttttc cattcagagt cctctgattc agattttaat</p>	Homo sapiens

434	53440	G Protein- Coupled Receptor LS53440	CAC38935.1	gttaacattt tggaagacag tattcagaaa aaaaatttcc ttaataaaaa atacaactca gatccttcaa atatgaaact ggttggggaa tctccatttt ttcaatatta ttttcttctt tggtttcttg ctacatatata ttattaatac cctgactagg ttgtggttgg aggtttatta cttttcattt taccatgcag tccaaatcta aactgcttct actgatggtt tacagcattc tgagataaga atggttacatc tagagaacat ttgccaaag ctaagcacg gcaagggaaa ataaacacag aatataataa atgagataa tctagcttaa aactataact tctcttctag aactcccaac cacattggat ctacagaaaa tgctgtcttc aaaaatgact ctacagagaa gaataaattt ttctctgga cactagcact taagggaag attggaagta aagccttgaa aagagtacat ttacctacgt taatgaaagt tgacacactg tctgagagt ttccacagca tatggaccct gtttttctta ttaattttc ttatcaaccc ttaattagg caaagatat attagtagcc tcattgtagc catgggaaa ttgatgttca gtggggatca gtgaattaaa tggtgataa caagtataa aattaaaaa aaaaagact tcatgcccac tctcatatga tgtggaagaa ctgttagaga gaccaacagg gtatggttgg agagatttcc agagtcttac atttctaga ggaggtattt aattcttct cactcatcca gtgtgtgtatt taggaatttc ctggcaacag aactcatggc ttaaatccca ctatgtattg cttattgtcc tgggtccaatt gccaattacc tgtgtcttgg aagaagtgt tctaggttc accattatgg aagattctta ttcagaaaagt ctgcataagg cttatagcaa gttatttatt tttaaaagt ccataggtga tcttgatagg cagtgaagt agggagccac cagttatgat gggaagtatg gaatggcagg tctbgaagat aacattggcc ttttgagtgt gactcgtagc tggaaagtga gggaaatcttc aggaccatgc ttaatttggg gctttgtgca gtatggaaca gggactttga gaccaggaaa gcaatctgac ttaggcatgg gaatcaggca ttttggcttc tgaggggcta ttaccaaggg ttaataggtt tcactctcaa caggatatga caacagtgtt aacctaaaga ctcaaatctac aaatactaaa acatgtgac atatatgtgg taagtctcat tttctttttc aatcctcagg ttccctgata tggattccta taacatgctt tcatccctt ttgtaattga tatcatattt ggaaatggct atttaatact tgtatttggc tctggactgt aagcccatga gggcactgtt tattattgaa tgtcatctct gttcatcatt gactgctctt tgtcatcat tgaatccccc agcaaatgac ctagaacata atagtctta tgcctgacac cggttatttt tcatcaaaac tgattccttc tgcctgaac acatagccag gcaattttcc agccttcttt gacttgggta ttatbaaatt ctggccatta ctccaatgt gagtggagat gacatgtgca attctatatac ctggctcata aaacctccc atgtgcagcc tttcatgttg acattaaatg tgacttggga agctatgtgt tacacagagt aatcaccag aagcctggat ttctgaaaaa actgtgcaga gccaaacctc tgtcatttgc aactccact tgtatttga cgaggcagtt ggataagtga aaaataaagt actatttgt caagaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaaa aaaaaa	MMVDNNGNES SATYFILIGL PGLERQFWL AFPLCSLYLI AVLGNLTIIY IVTFEHSIHE P PMYIFLCMLS GIDILISTSS MPRMLAIFWF NSTTIQFDAC LLQMFALHSL SGMESTVLLA MAFDRYVAIC HPLRHATVLT LPRVTIKGVA AVVRGAALMA PLPVFIKQLP FCRSNILSHS YCLHQDVMKL ACDDIRNVW YGLIVISAI GLDSLISFS YLLILKTVLG LTRQAQAKAF GTCVSHCAV FIFYVPFIGL SMVHRFSKRR DSPLPVILAN IYLLVPPVLN PIVYGVKTKE IRQRIURLFH VATHASEP	Homo sapiens
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435	54053	Gaba (b) Receptor 2	NM_005458	Homo sapiens
				A
				atgggttccc cgcgagggtc cgggcagcca gggcgggcgc cgccgcgcgc accgcgcgcc
				gcgcgcctgc tactgtact gctgtgtccg ctgtgtgtgc ctctgggcgc cggggcctgg
				ggctgggcgc ggggcgcccc ccggcgcccg ccagcagcc cgccgccttc catcatgggc
				ctcatgcgcg tcaccaagga ggtggccaag ggcagcatcg ggcgcggtgt gctcccgcc
				gtggaactgg ccactgagca gatccgcaac gactgactcc tgccccccta ctctctcgac
				ctgcggctct atgacacgga gtgcgacaac gcaaaagggt tgaaagcctt ctacgatgca
				ataaaatcgc ggcgaacca cttgatggtg tttggaggcg tctgtccatc cgtcacatcc
				atcattgcag agtccctcca aggtggaat ctggtgcagc ttcttttgc tgcaaccaag
				cctgttctag ccgataagaa aaaataccct tatttcttc ggaccgtccc atcagacaaat
				gcggtgaatc cagccattct gaagtgtctc aagcactacc agtggaaagc cgtgggcacg
				ctgacgcaag acgttcagag gttctctgag gtgcggaatg acctgactgg agttctgtat
				ggcgaggaca ttgagatttc agacaccgag agcttctcca acgatccctg taccagtgtc
				aaaaagctga aggggaatga tgtgcggatc atccttgcc agtttgacca gaatatggca
				gcaaaagtgt tctgttgtgc atacgaggag aacatgtatg gtagtaata tcagtggatc
				attccgggct ggtacgagcc ttcttggtgg gagcaggtgc acacggaagc caactcatc
				cgtgcctcc ggaagaatct gttgtgtgcc atgaggggt acattggcgt ggatttcgag
				ccctgagct ccaagcagat caagaccatc tcaggaaaga tccacagca gtatgagaga
				gagtacaaca acaagcgtc aggcgtgggg ccacgcaagt tccacgggta cgcctacgat
				ggcatctggg tcatcgccaa gacactgcag agggccatga agacactgca tgcacgagc
				cggcaccagc ggatccagga cttcaactac acggaccaca cgttgggcag gatcatcctc
				aatgccatga acgagacca cttcttcggg gtcaacgggtc aagttgtatt ccggaatggg
				gagagaatgg ggaaccattaa atttactcaa tttaagaca gcaggagggt gaaggtggga
				gaglacaaacg ctgtggccga cacactggag atcatcaatg acaccatcag gtccaagga
				tcggaaccac caaaagacaa gaccatcatc ctggagcagc tgcggaagat ctccctacct
				ctctacagca tctctctgc cctcaccatc ctcgggatga tcatggccag tgcctttctc
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				aaccttatca tccctggagg gatgctctcc tatgcttcca tatctctct tggccttgat
				ggatcccttg tctctgaaa gacctttgaa acactttgca ccgtcaggac ctggattctc
				accgtgggct acacgaccgc ttctggggcc atgtttgcaa agacctggag agtccacgcc
				atcttcaaaa atgtgaaaat gaagaagaag atcatcaagg accagaaact gcttgtgac
				gtggggggca tgcctgtgat cgacctgtgt atcctgatct gctggcaggc tgtggacccc
				ctgcgaagga cagtggagaa gtacagcatg gagccggacc cagcaggacg ggatatctcc
				atccgccttc tccctggagca ctgtgagaac accatatga ccatctggct tggcatctgc
				tatgcctaca agggacttct catgttgttc ggtgtttct tagcttggga gaccgcaac
				gtcagcatcc ccgactcaa cgcactgcaa tacatcgga ttagtgtcta caacgtgggg
				atcatgtgca tcatcggggc cgtgtgtctc ttctgacc gggaaccagcc caatgtgcag
				ttctgcatcg tggctctggt catcatcttc tgcagcaca tcacctctg cctggtattc
				gtgccgaagc tcatcacctc gagaacaaac ccagatgcag caacgcagaa caggcgattc
				cagttcactc agaatacaga gaaagaagat tctaaaacgt ccacctcgtt caccagtgtg
				aaccaagcca gcacatccc cctggagggc ctacagtcat aaaaacctcg cctgcgaatg
				aagatcacag agctggataa agacttggaa gaggtcacca tgcagctgca ggacacacca

436	54053	Gaba (b) Receptor 2	NP_005449.1	MASPRSGQP	GRPPPPPPPP	ARLLLLLLP	LLPLAPGAW	GWARGAPRP	PSSPPLSIMG	P	Homo sapiens
				LMPLTKEVAK	GSIGRGVLP	VELAEIQIRN	ESLLRPYFLD	LRLYDTECDN	AKGLKAFYDA		
				IKYGNHLMV	FGGVCPSTV	IIAESLQGN	LVLQSLFAAT	PVLADKKYP	YFFRTVPSDN		
				AVNPAILKLL	KHYQWKRVGT	LTQDVQRFS	VRNDLTGLV	GEDIEISDE	SFSNDPCTSV		
				KKLKGNDVRI	ILGFQDNMA	AKVECCAYEE	NMYGSKYQWI	IPGWYEPSWW	EQVHTEANYS		
				RCLRNLLAA	MEGYIGVDFF	PLSSQIKTI	SGKTPQQYER	EYNNKRSGVG	PSKFHGYAYD		
				GIWVIKTLQ	RAMETLHASS	RHQRIQDFNY	TDTLGRILL	NAMNETNFFG	VTGQVVERNG		
				ERMGTIKFTQ	FQDSREVKVG	EYNVAADTLE	IINDTIRFQG	SEPPKDKTII	LEQLRKISLP		
				LYSILSALTI	LGMIMASAFI	FFNIKRNQK	LIMSSPYMN	NLIILGMLS	YASIFLFLGLD		
				GSFVSEKTFE	TLCTVRTWIL	TVGYTAFGA	MEFARTVRHA	IFRNVMKKK	IIDQKLLVI		
				VYGMILLDL	ILICWQAVDP	LRRITVEKYS	EPDPAGRDIS	IRLLEHCEN	TMTIWLGI		
				YAYKGLMLF	GCFLAWETRN	VSIPALNDSK	YIGMSVYNVG	IMCIIGAAS	FLTRDQPNVQ		
				FCIVALVIF	CSTITLCLVF	VPKLITLRTN	PDAQTNRRE	QFTQAKKED	SKTSTSVTS		
				NQASTSRLEG	LQSENHRLRM	KITELDKDLE	EVTMLQDTP	EKTYIKQNH	YQELNDILNL		
				GNFTESPDGG	KAILKNHLDQ	NPQLQWNTTE	PSRCKDPIE	DINSPEHIQR	RLSLQLPIIH		
				HAYLPSIGGV	DASCVSPCVS	PTASPRHRHV	PPSFRVMVSG	L			
437	55728	ETL protein	NM_022159	gtgaaattta	aactccagtc	ctgtggcgaa	aatgctaatt	gcactaacac	agaaggaagt	A	Homo sapiens
				tattattgta	tgtgtgtacc	tggcttcaga	tcagcagta	accaagacag	gtttatcac		
				aatgatggaa	ccgtctgtat	agaaaatgtg	aatgcaaat	gccatttaga	taatgtctgt		
				atagctgcaa	atattaataa	aactttaaca	aaatcagat	ccataaaga	acctgtggct		
				ttgctacaag	aagtctatag	aaattctgtg	acagatcttt	caccaacaga	tataattaca		
				tatatagaaa	tattagctga	atcatcttca	ttactaggtt	acaagaacaa	cactatctca		
				gccaaggaca	ccctttctaa	ctcaactctt	actgaatttg	taaaaaccgt	gaataatttt		
				gttcaaaagg	atacatttgt	agttggggac	agtaattctg	tgaatcatag	gagaacacat		
				cttcaaaaac	tcatacacac	tgttgaacaa	gctactttaa	ggatatccca	gagcttccaa		
				aagaccacag	agtttgatac	aaattcaacg	gatatagctc	tcaaatgttt	ctttttgat		
				tcataataca	tgaacatat	tcactctcat	atgaatatgg	atgagacta	cataaatata		
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				tataagagta	ttggtccttt	gctttcatca	tcagacaact	tcttattgaa	acctcaaaat		
				tatgataatt	ctgaaagagga	ggaaagagtc	atatcttcag	taatttcagt	tcacatgagc		
				tcaaacccac	ccacattata	tgaacttgaa	aaaataacat	ttacattaa	tcacatgaaa		
				gtcacagata	ggtataggag	tctatgtgca	ttttggaatt	actcacctga	taccatgaat		
				ggcagctggt	cttcagaggg	ctgtgagctg	acatactcaa	atgagaccca	cacctcatgc		
				cgctgtaatc	acctgacaca	ttttgcaatt	ttgatgtcct	ctggctcttc	catbggtatt		

438	55728	ETL protein	NP_071442.1	<p>aaagattata atattcttac aaggatcact caactaggaa taattatttc actgatttgt cttgccatat gcaattttac cttctgttc ttcaagttaa ttcaagcac caggacaaca attcacaaaa atctttgtcg tagcctattt cttgctgaac ttgtttttct tgttgggac aatacaaaata ctaataagct cttctgttca atcattgccg gactgctaca ctacttcttt ttagctgctt ttgcatggat gtgcattgaa ggcatacatc tctatctcat tgttggggt gtcatctaca acaagggtt ttgacacaag aatttttata tctttggcta tctaaagcca gccgtggtag ttggattttc ggagcacta ggatacagat attatggcac aacaaagta tgttggtta gcaccgaaaa caactttatt tggagttaa taggaccagc atgcctaate attcttggtta atctcttggc ttttggagtc atcatataca agttttttgc tcacactgca gggttgaaac cagaagttag ttgctttgag aacataaggt cttgtgcaag aggagccctc gctctctgt tcttctcgg caccacctg atcttgggg tcttccatgt tgtgacgca tcagtgtta cagcttacct cttcacagtc agcaatgctt tccagggtat gttcattttt ttattcctgt gtgttttatc tagaaagatt caagaagaat attacagatt gttcaaaaa gtccctgtt gtttggatg tttaaggtaa acatagagaa tgggtgataa ttacaactgc acaaaaataa aaattccaag ctgtggatga ccaatgtata aaaatgactc atcaaatat ccaattatta actactagac aaaaagtatt ttaaatcagt ttttctgttt atgtatagg aactgtatag aataaggtaa aattatgtat catatagata tactatgttt ttctatgta aatagtctg tcaaaaaatag tattgcagat atttggaaag taattgggtt ctcaggagtg atatcactgc accaaaggaa agattttctt tctaacacga gaagtatatg aatgtcctga aggaaaccac tggcttgata ttctgtgac tctgtgtgac tttgaaacta gtccctacc acctcgtaa tgagctccat tacagaaagt ggaacataag agaataaggg ggcagaatat caacagtgta aaagggaatg ataagatga ttttgaatga actgtttttt ctgtagacta gtgagaaat tgtgacata aaataaagaa ttgaagaaac acattttacc atttgtgaa ttgtctgaa cttaaatgct cactaaaaa acttagactt ctgtttgcta aatctgtttc tttttctaatt attctaaaa</p>	Homo sapiens
439	56923	Muscarinic acetylcholine Receptor M3	NM_000740	<p>atgaccttgc acaataacag tacaacctcg ctttgtttc caaacatcag ctctctctgg A atacacagcc cctccgatgc aggtgctccc ccggaacccg tcaactcattt cgcagactac aatgtttctc gacagctgg caatttctcc tctccagacg gtaccaccga tgacctctg ggagtcata ccgtctggca agtgtcttc ategtttct taacgggcat cctggccttg gtgaccatca tggcaacat cctggttaatt gtgtcattta aggtcaacaa gcagctgaag CFGCLR</p>	Homo sapiens

316/448

440	56923	Muscarinic acetylcholin e Receptor M3	NP_000731.1	<p>acgggtcaaca actacttctt cttaagcctg gctgtgccc atctgattat cgggggtcatt tcaatgaatc tgtttacgac ctacatcatc atgaatcgat gggccttagg gaacttggcc tgtgacctct ggcttgccat tgactacgta gccagcaatg cctctgttat gaatcttctg gtcatcagct ttgacagata cttttccatc acgagggcgc tcaagtaccg agccaaacga acacaaaga gagccgtgtg gatgatcgtt ctggcttggg tcaatctctt tgtcctttgg gtctctgcca tctgttctg gcaatacttt gttggaaga gaactgtgcc tccgggagag tgcttcttc agttctctcag tgagcccacc attacttttg gcacagccat cgctgctttt tatatgcctg tcaccattat gactatttta tactggagga tctataagga aactgaaaag cgtaccaaaag agcttgcttg cctgcaagcc tctgggacag aggcagagac agaaaacttt gtcaccccca cgggcagttc tgaagctgc agcagttacg aacttcaaca gcaagcatg aaacgctcca acagaggaa gtatggccgc tgcacttct ggttcaaac caagagctgg aaaccagct ccgagcagat ggaccaagac caccagca gtgacagttg gaacaacaat gatgtgctg cctccttgga gaactccgcc tctccgacg aggagacat tggctccgag acgagagcca tctactccat cgtgtcctca gctccgggtc acagaccat cctcaactcc accaagttac cctcatcgga caactgcag gtgctgagg aggagctggg gatggtggac ttggagagga aagccgacaa gtgagggcc cagaagagcg tggacgatgg aggcagtttt ccaaaagct tctccaagct tccatccag ctgaggtcag ccgtggacac agctaaagact tctgagctca actcctcagt gggtaaagac acggccactc tactctgtc cttcaaggaa gccactctgg ccaagaggtt tgcctgaa gacagaaag agatcactaa ggggaaaaag atgtccctgg tcaaggagaa gaaagcgcc cagaccctca gtgcgatctt gcttgcccttc atcatcactt ggaccccata caacatcagt gttctgtgta acacctttg tgacagctgc ataccaaaa ccttttggaa tctgggtac tgggtgtgct acatcaacag caccgtgaac ccggtgtgct atgctctgtg caaaaaaca ttcagaacca ctttcaagat gctgctgctg tgccagtgtg acaaaaaaaa gagcgcaag cagcagtacc agcagagaca gtcggtcatt tttcaaacg cgcgacccga gcaggccttg tag</p>	Homo sapiens
441	57180	Leukotriene B4 Receptor BLTR2	NM_019839	<p>MTLHNNSTTS PLFPNISSW IHSFSDAGLP PGVTHFGSY NVSRAGNFS SPDGTTDDPL P GGHTVWQVVF IAFITGILAL VTIIGNILVI VSEKVNQLK TVNNYFLLSL ACADLIIGVI SMNLFTYII MNRWALGNLA CDLWLAIDYV ASNASVMNLL VISFDYFYSI TRPLTYRAKR TTKRAGVMIG LAWVISFVLW APAILFWQYF VGKRTVPPGE CFIQFLSEPT ITFTAIAAF YMPVTIMTIL YWRIYKETEK RTKELAGLQA SGTEAETENF VHPTGSSRSC SSYELQQQSM KRSNRRKYGR CHFWEFTKSW KPSSEQMDQD HSSSDSWNNN DAAASLENSA SDEEDIGSE TRAIYSIVLK LPGHSTILNS TKLPSSDNIQ VPEEIGMVD LERKADKLQA QKSVDGGSF PKSFSKLPIQ LESAVDTAKT SDVNSSVGKS TATPLSFKE IAKRPFALK TRSQITKRKR MSLVKEKAA QTLSAILLAF IITWTPYNIM VLVNTEFCDSC IPKTFWNILGY WLCYNINSTVN PVCYALCNKT FRTTFKMLLL CQCDKKRRK QQYQQQSVI FHKRAPEQAL</p>	Homo sapiens

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tttcccttcc ccagctcta tccatctgcc agggcccccct caaatctctt catttccaag
ttttgcttga cttttccaag aggagaggcc tgccttcttag tatgtcccta ctcatecttt
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LAG Seven- Pass G-Type Receptor 1 (CELSRI/Flam ingo) Homo sapiens

VQATDRDQCG NAAITHYSILS GNVAGQFYH SLSGILDVIN PLDFEDVQKY SLSIKAQDGG
 RPPLINSSGV VSVQVLVDND NEPIFVSSPE QATVLENVPL GYPVVIQAV DADSGENARL
 HYRLVDAST FLGGGSAGPK NPAPTDFPF QIHNSSGWIT VCAELDREEV EHYSGVEAV
 DHGSPPMSSS TSVSITVLDV NDNDPVFTQP TYELRLNEDA AVGSSVLTQ ARDRDANSVI
 TYQLTGGNTR NRFALSSQRG GGLITLALPL DYKQEQYYL AVTASDGTRS HTAHVLINVT
 DANTRPVFQ SHYTVSVSE DRPVGTSIAT LSANDEDTGE NARITYVIQD PVPQFRIDPD
 SGTMYTMEL DYENQVAYTL TIMAQDNGIP QKSDTTTLEL LILDANDNAP QFLWDFYQGS
 IFEDAPPSTS ILQVSATDRD SGPNGRLLYT FQGGDDGDGD FYIEPTSGVI RTQRRLDREN
 VAVYNLWALA VDRGSPTPLS ASVEIQVTIL DINDNAPME KDELELFVEE NNPGSVVAK
 IRANDPDEGP NAQIMYQIVE GDMRHHFQLD LINGDLRAMV ELDFFVRREY VLVVQATSAP
 LVSRATVHIL LVDQNDNPPV LPDFQILENN YVTNKSNSFP TGVIQCIPAH DPDVSDSLNY
 TFVQGNELRL LLDIPATGEL QLSRDLNDR PLEALMEVS SDGHSVTAF CTLRVTIITD
 DMLTNSITVR LENMSQEKFL SPLALFVEG VAAVLSTTKD DVFFNVQND TDVSSNINLV
 TFSALLPGV RQGFPPSEDL QEQIYLNRTL LTTISTQRVL PFDDNICLRE PCENYMKCVS
 VLRFDSSAPF LSSTTVLFRP IHPINGLR CRPPGFTGDYC ETEIDL CYSD PCGANGRCRS
 REGGYTCECF EDTGHECEV DARSGRGANG VCKNGGTCVN LLIGGFHCVC PPGEYERPYC
 EVTRSFPPQ SEVTFRGLRQ REHFTISLTF ATQERNGLLL YNGRENEKHD FIALEIVDEQ
 VQLTFSAGET TTTVAPKVP S GVSIDGRHVS QVQYYNKPNL GHGLPHGPS GEKMAVVTVD
 DCDTMAVRF GKDIGNYS CA AQGTQTSKK SLDLTGPLLL GGVPNLPEDE PVHNRQFVGC
 MRNLSVDGKN VDMAGFIANN GTREGCAARR NFDGRRCLLN GGTCVNRWNN YLCECPLREF
 GNCEQAMPH POLFSGESV SWSDLNIIIS VPMYGLMFR TRKEDSVLME ATSGGTSFR
 LQIINNYLQF EVSHGPSDE SVMLSGLRVT DGMWHLLIE LKNVKEDSEM KHLVTMTLDY
 GMDQNKADIG GMLPGLTVRS VVVGASEDK VSVRGRGRC MQGVRMGGTP TNVATLMMNN
 ALKVRVKDGC DVDDPCTSSP CPNSRCHDA WEDYSCVCDK GYLGINCVDA CHLNPCEMNG
 ACVRSPGSPQ GYVCECGPSH YGPYCNKLD LPCRGMWGN PVCGPCCHCAV SKGDFPDCNK
 TNGQCCKEN YYKLLAQDTC LPCDCFPHGS HSRTCMMATG QCACKPGVIG RQCNRCNDPE
 AEVTLGCEV IYNGCPKAFE AGIWWPQTKF QGPAAVPCPK GSVGNVAVRHC SGEKWLPE
 LFNCTTISFV DLRAMNEKLS RNETQVDGAR ALQIVRALRS ATQHTGTLFG NDVRTAYQLL
 GHVLQHSWQ QGFDAATQD ADFHEDVIHS GSALLAPATR AAMEQIQORSE GGTQALLRRL
 EGYFSNVARN VRRTYLRPFV IVTANMILAV DIEDKENFTG ARVPRFDTIH EEPRELESS
 VSFFADFFRF PEEKEGPLL R PAGRRTTPQT TRPGPGTERE APISRRRRHP DDAGQFAVAL
 VIIYRTLQOL LPERYDPPDRR SLRLPHRPII NTPMVSTLVY SEGAPLPRPL ERPVLVEFAL
 LEVEERTKPV CVFWNHSILAV GGTGGSARG CELLSNRNTH VACQCSHTAS FAVLMDISRR
 ENGEVLPLKI VTYAAVSLSL AALIVAFVLL SVLRMLRSNL HSIKHLAVA LFLSOLVFEVI
 GINQTNPFLL CTVAAILLHY IYMSSTFAWTL VESLHVYRML TEVRNIDTGP MRFYVVGWG
 IPAIVTGLAV GLDPQGYGNP DFCWLSLQDT LLLISATWLL GLLAVNRDAL SFHYLFAIFS GLQGFVLLF
 KHHYGGKKGI VSLRRTAFLL LLLISATWLL GLLAVNRDAL SFHYLFAIFS GLQGFVLLF
 HCVLNQEVK HLKGVIGGRK LHEDSATTR ATLLTRSLNC NTFDGDGPD LRTDLGESTA
 SLDSIVRDEG IQKLGVSGL VRGSHGEPDA SLMPSCKDP PGHDSDDSE LSLDEQSSSY
 ASSHSSDSED DGVGAEEKWD PARGAVHSTP KGDVANHVHP AGWPDQSLAE SDESDPSGKP
 RLKVTKVSV ELHREEQGSH RGEYPPDOES GGAARLASSO PPEQRKGILK NKVTYPPPLT

445	74514	5-HT5A Receptor	NM_024012	<p>LTEQTLKGRL REKLADCEQS PTSSRTSSLG SGGPDCAITV KSPGREPGRD HLNQVAMNVR</p> <p>TGSAQADGSD SEKP</p> <p>atggatttac cagtgaaacct aacctctttt tccctctcca cccctctccc tttagagacc A</p> <p>aaccacagcc tcggcaaaaga cgacctgcgc ccagctgcgc ccctgctctc ggtcttcgga</p> <p>gtgcttattc tcaccttgct gggctttctg gtgcgggaga cgttcgctcg gaacctgctg</p> <p>gtgctggaga ccacctctcg tgtacgcacc ttccccacaa cctggtggca</p> <p>tccatggccc tctcgatgt cctggtggcc gcgctggtea tgcgctgag cctggtgcat</p> <p>gagctgtccg ggcgccgctg gcagctaggt cgagagctgt gccagctttg gatcgctgc</p> <p>gacgtgcttt gctgcacggc cagcatctgg aacgtgacgg ccatagacct ggacgcctac</p> <p>tggctccatca cgcgccacat ggaataacag ctccgcacc gcaagtgcgt ctccaacgtc</p> <p>atgategcgc tcacctgggc actctcgcgt gtcattctctc tggccccgt gctttttggc</p> <p>tggggagaga cgtactctga gggcagcgag gagtgcctgc taagccgcga gccttccctac</p> <p>gccgtgttct ccaccgtagg cgcttctac ctgcgcctct gtgtggtgct ctctggttac</p> <p>tggaaatct acaagctgc caagttccgc gtgggctcca ggaagaccaa tagcgtctca</p> <p>cccatatccg aagctgtgga ggtgaaggac tctgccaaac agccccagat ggtgttcacg</p> <p>gtccgccacg ccaccgtcac ctccagcca gaaggggaga cgtggcgga gcagaaggag</p> <p>cagcggggcg cctcatggt gggcatctc attggcgtgt tctgtctctg ctggatcccc</p> <p>ttctttctca cggagctcat cagtccttc tctctcttg acatcccg catctgaaa</p> <p>agcatcttc tgtggttg ctactccaac tcttcttt accccctgat ctatacgct</p> <p>ttcaacaaga actacaacag cgcttccaag aacttcttt ctaggcaaca ctga</p> <p>MDLPVNLTSF SLSTPSLET NLSLGGKDDL RPSPLLSVFG VLILTLGL VAATFAWNL P</p> <p>VLATILRVRT FHRVPHNLVA SMASVDLVA ALVPLSLVH ELSGRWQLG RRLCQLWIAC</p> <p>DVLCCTASIW NVTALDRY WSITRMEYT LTRKCVSNV MIALTWALSA VISIAPLLFG</p> <p>WGETYSEGSE ECQVSREPSY AVFSTVGAFY LPLCWLFVY WKIYKAKEP VGSRTNSVS</p> <p>PISEAVEVKD SAKQPQMVFT VRHATVTIQP EGDWTREQKE QRAALMVGIL IGVFVLCWIP</p> <p>FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFFNPLIYTA FNKNYNSAFK NFFSRQH</p> <p>gtaatgcaga gataataaaa ctctcttaggt ccataggtct tataataatt taataaccta A</p> <p>aacatggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtctccc</p> <p>aaactttcaa gttagatttt attgcttga ttagtggtctt taaatatgaa agtcttgcc</p> <p>tgtgaagggc aatccttttc ccgtggactg ggatctatag aaatacagaa atgtgccccag</p> <p>gggttcatct ccctaataac catcattcac atttctcaac ctccctaata accagccacc</p> <p>atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactggt</p> <p>cagtggagtt ggttgcaacc tgatgctaaag gatgtcaag ttgtctcgc ctctgttccc</p> <p>agccagtaag taattccctg gcctcgggcc ataccctca atcttggtca gctgattatg</p> <p>acaggcagac agcacagtaa ataacactat atattaagaa aaccctaaag atattgatca</p> <p>atggtatatata ccaacagca tcttaggaat ggagagctcg tagcaaggcg ctccaatgtg</p> <p>aaggtcaaca cagtcactgt gatgcgtgta ttccatttt gtaaagcatg atctctggtg</p> <p>gtcattttta tcttctaac ttattggaaa agtctcctgt tttagggggc cgccccctggt</p> <p>cacagccaga ctgactcagt ttccctggga ggtccccgctc gagccccgtc ttccccctcc</p> <p>tctgccccgc ccagccctc gcccacccct cggcgcccg acatctgct gctcagctcc</p> <p>agacggcgcc cggacccccg ggcgaggat ccagccaggt gggagccccg cagatgaggt</p>	Homo sapiens
446	74514	5-HT5A Receptor	NP_076917.1	<p>VLATILRVRT FHRVPHNLVA SMASVDLVA ALVPLSLVH ELSGRWQLG RRLCQLWIAC</p> <p>DVLCCTASIW NVTALDRY WSITRMEYT LTRKCVSNV MIALTWALSA VISIAPLLFG</p> <p>WGETYSEGSE ECQVSREPSY AVFSTVGAFY LPLCWLFVY WKIYKAKEP VGSRTNSVS</p> <p>PISEAVEVKD SAKQPQMVFT VRHATVTIQP EGDWTREQKE QRAALMVGIL IGVFVLCWIP</p> <p>FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFFNPLIYTA FNKNYNSAFK NFFSRQH</p> <p>gtaatgcaga gataataaaa ctctcttaggt ccataggtct tataataatt taataaccta A</p> <p>aacatggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtctccc</p> <p>aaactttcaa gttagatttt attgcttga ttagtggtctt taaatatgaa agtcttgcc</p> <p>tgtgaagggc aatccttttc ccgtggactg ggatctatag aaatacagaa atgtgccccag</p> <p>gggttcatct ccctaataac catcattcac atttctcaac ctccctaata accagccacc</p> <p>atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactggt</p> <p>cagtggagtt ggttgcaacc tgatgctaaag gatgtcaag ttgtctcgc ctctgttccc</p> <p>agccagtaag taattccctg gcctcgggcc ataccctca atcttggtca gctgattatg</p> <p>acaggcagac agcacagtaa ataacactat atattaagaa aaccctaaag atattgatca</p> <p>atggtatatata ccaacagca tcttaggaat ggagagctcg tagcaaggcg ctccaatgtg</p> <p>aaggtcaaca cagtcactgt gatgcgtgta ttccatttt gtaaagcatg atctctggtg</p> <p>gtcattttta tcttctaac ttattggaaa agtctcctgt tttagggggc cgccccctggt</p> <p>cacagccaga ctgactcagt ttccctggga ggtccccgctc gagccccgtc ttccccctcc</p> <p>tctgccccgc ccagccctc gcccacccct cggcgcccg acatctgct gctcagctcc</p> <p>agacggcgcc cggacccccg ggcgaggat ccagccaggt gggagccccg cagatgaggt</p>	Homo sapiens
447	81765	Thromboxane A2 Receptor	NM_001060		Homo sapiens

448	81765	Thromboxane A2 Receptor	NP_001051.1	<p> ctctgaaggt gtgcctgaac cagtgccagc ctgcccctgtc tgcagcatcg gcctgatggg gtgggtactg atccctcagg gctccggagc catgtgcccc aacggcagtt cccctggggcc ctgtttccgg ccacacaaaca ttaccctgga ggagagacgg ctgategcct cgccctgggt cgccgcctcc ttctgcgtgg tgggcccctgg ctccaaacctg ctggccctga gcgtgctggc ggcgccggcg cagggggggt cgcacacggg ctccctcttc ctacaccttc tctgcggcct cgctctacc gacttccctgg ggctgctggt gaccggtacc atcgtgggtg cccagcacgc cgcgctcttc gagtggcacg ccgtggaccc tggctgccct ctctgtcgtc tcatgggctg cgctcatgac ttcttcggcc tgtccccgct gctgctgggg gccgccatgg cctcagagcg ctactgggt atcaccggcg ccttctcgcg ccggcggtgc gctcgcagc gccgcgctg ggccaccgtg gggctgggtg tggcgggcgc gctggcgctg ggctgctgc cccctgctgg cgtgggtcgc tacaccgtgc aataccgggg gtccctggtgc ttccctgacgc tggcgccga gtccggggac gtggccttcg ggtgctctt ctccatgctg ggcgccctct cggctcggct gtccttctcg ctgaacacgg tcagcgtggc caccctgtgc cagctctacc acgggcagga ggcgccccag cagcgtcccc gggactccga ggtggagatg atggctcagc tccctggggat catgggtggtg gccagcgtgt gttggctgcc ccttctggtc ttcatgtccc agacagtgt ggcaaacccg cctggccatga gcccgccgg gcagctgtcc cgcaccacgg agaaggagct gctcatctac ttgcgcgtgg ccacctggaa ccagatcctg gaccctggg tgtatatacct gtccgcgcg gcgtgctcc ggcgtctcca gctcgcttc agcacccggc ccaggtcgt gtccctccag cccagctca cgcagcgtc cggctgacg taggaagtgg acagagcgcc cctcccgccg ctttccggcg agccttggc cctcctgaca gccatctgc ctgttctctgag gattcagggg ctgggggtgc tggatggaca gggggcatca gcagcagggt ttgggttga cccaatcca accgggggac cccaaactcc tccctgatcc tttaccaag cactctccct tccctggccc ctttttccca tccagagctc ccaccccttc tctgcgtccc tcccaacccc aggaagggca tgcagacatt ggaagagggt cttgcattgc tattttttt tttagacgga gtcttgctct gtcccccagg ctggagtga caccacacct gggcattttt tttttttt tagacggagt acctcccggg tcaagcgtat tctcctgct cagctcctcg agtagctggg actataggcg cgcgccacca cgcccggtc atttttgat ttttagtaga gacgggggtt caccgtgttg gccaggctgg tcttgaactc ctgacctcag gtgattcacc agcctcagcc tcccaaatg ctgggatcac aggcattgaac caccacacct ggcattttt tttttttt tagacggagt ctcactctgt gcccagcct ggaatcacgt ggcacgatct cggctcactg caacctccgc ctcccggtt caagcgattc tctgacctca gcctcccgag cagctgggat tacaggcgta agccactgcg ccggccttg catgctctt gacctgaat ttgacctact tgcctggggta cagttgcttc cttttgaacc tccaacaggg agggctctgt ccagaaagga ttgaatgtga aacgggggga ccccttttc ttgcaaaa atactctgc ctttggttt at </p>	<p> Homo sapiens P GARQGGSHTR VMIFFGLSPL VGRYTVQYPG AAQRPRDSE LIYLRVATWN GLQ </p>
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449	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NM_005283	atggagtcct caggcaacc agagagcacc acctttttt actatgacct tcagagccag A ccgtgtgaga accaggcctg ggtctttgt accctgcga ccaactgtct gtaactgctg gtgtttctcc tcagcctagt gggcaacagc ctgggtcctgt ggttctctgt gaagtatgag agcctggagt cctcaccacaa catcttcac ctcaacctgt gcttctcaga cctgggtgtc gctgtctgt tgcctgtgtg gatctccca taccactgg gctgggtgt gggagacttc ctctgcaaac tctcaatat gatcttctc atcagcctct acagcagcat ctcttctctg accatcatga ccatccaccg ctactgtcg gtagtgagcc cctctccac cctgcgcgc ccacccctcc gctgcccggg gctggtgacc atggctgtg ggttagccag catcctgtcc tccatcctcg acaccatctt ccacaaggtg ctttctcgg gctgtgatta ttccgaactc acgtggtaac tcacctcctg ctaccagcac aacctcttct tctgtctgc cctggggatt atcctgttct gctacgtgga gatcctcagg accctgttcc gctcacgctc caagcggcgc cacgcacagg tcaagctcat ctctgccatc gctgggtgctc attctctcag ctggggctcc tacaacttca cctgtttct gcagacgctg ttctcgaccc agatcatccg gagctgcgag gccaaacagc agctagaata cgcctgtctc atctgcgca accctgcctt ctcccactgc tgttttaacc cgggtgctcta tgtcttcgtg ggggtcaagt tccgcacaca cctgaaacat gttctccgc agttctggtt ctgcccggctg caggcaccca gccacgcctc gatccccac tcccctgggt ccttcgccta tgaggcgcc tcttctact ga 450	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NP_005274.1	MESSENPST TFYYDLQSQ PCENQAWVFA TLATTVLYCL VFLLSLVGNIS LVLMLVKYE P SLESNTNIFI LNLCLSDLVF ACLLPWVISP YHWGWVLGDF LCKLLNMIFS ISLYSSIFFL TIMTIHRYLS VVSPSLTLRV PTLRCRVLVT MAVWVASILS SILDITIFKV LSSGCDYSEL TWYITSVYQH NLFLLSLGI ILFCYVEILR TLFRRSRKRR HRTVKLIIFAI VWAYFLSWG P YNFTLFLOTL FRQIIRSC AKQOLEYALL ICRNLAFSHC CENPVLYFV GVKFRTHLKH VLRQFWFCRL QAPSPASIPH SPGAFAYEGA SFY	Homo sapiens
451	130108	G Protein-Coupled Receptor GPR75	NM_006794	gcgatggcga tgatgcctct agtctgcat catccagagc ggcaggcgag ctgggggtccg A gactgcgaga tgaggaggag ggcgctgctg gcacccggca ggttatctctg tcttgggcct ctttgtcac atattgtca tctgtgagct gagggcctga ctcactgagt attttgggg agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc cccaatgcca cctcgctcca tggcctcac tcacaggaag gaacacagcac ctctctccag gagggtcttc aggatctcat ccacacagcc accctgggtga cctgtacttt tctactggcg gtcatcttct gctgggttc ctatggcaac ttcattgtct tcttgcctt cttcgatcca gccttcagga aattcagaac caactttgat ttcattgatcc tgaacctgtc cttctgtgac ctcttcattt gtggagtgc agcccccatg ttacaccttg tgttattctt cagctcagcc agtagtatcc cggatgctt ctgcttcaat ttcattctca caggttcagg ctccatcatc atgtctctga agacagtggc agtgatcgcc ctgcacgggc tccggatggt gttggggaaa cagcctaacc gcacggcctc ctctccctgc accgtactcc tcacctgct tctctgggcc accagtttca ccttgccac ctgggtacc ttgaaaacca gcaagtccca cctctgtctt cccatgtcca gtctgattgc tggaaaaggg aaagccattt tgcctctcta tgtggtcgac ttcaccttct gtgtgtctgt ggtctctgtc tcttacctca tgattgtca gacctgcgg aagaacgctc aagtcagaaa tggccccctt gtaatcacag tgatgcttc cagaccacag cctttcatgg ggtccctgt gcaggagggt ggaagtccca tccagtgtgc catgccggct ctgtatagga accagaatta caacaactg cagcacgttc agaccgttg atataccaag	Homo sapiens				

452	130108 G Protein- Coupled Receptor GPR75	NP_006785.1	<p> agtcccaacc aactgggtcac cctgcagca agccgactcc agctcgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcacctgtg tgatcattgt gctgtcagtc ctgggtgtgt gttctccact ggggatttcc ttgggtacagg tgggttctctc cagcaatggg agcttcattc ttaccacagt tgaattgttt ggatttactc ttatatattt caagtcagga ttaaaccttc ttatatattc tgggaacagt gcagggtcga gaagaaagt gctctgggtc ctccaataca taggctggg ttttttctgc tgcaaacaaa agactcgact tcgagccatg ggaagaaggga acctcgaagt caacagaaac aaatctctcc atcatgaaac aaactctgcc tacatgttat ctccaagcc acagaagaa tttgtggacc aggtctgtgg cccaagtcat tcaaaagaaa gtatgggtgag tcccaagatc tctgtggac atcaacactg tggtcagagc agctcgacc ccatcaaac tcggattgaa ccttactaca gcatctataa cagcagccct tccagagg agagcagccc atgtaactta cagccagtaa actcttttg atttgccaat tcatatattg ccatgcatta tcacaccact aatgacttag tgcaggaata tgacagcact tcagccaagc agattccagt cccctccgtt taaagtcagt gaggctatag gatcttatgt aaacagtitt tgtttctgat agtaatggac tttattctaa cttagagatca gtggcggatc aaaacctaca agattcaact gaaaagtgg cagttatggt tttctttcat ctgatgtgtc agtatctgtt gatttgcttt gtagtgtgtt gacatcttaa gatttgatgt gaaagtttta gattttttac cctg </p>	Homo sapiens
453	133117 G Protein- Coupled Receptor RAIG1	NM_003979	<p> MNSTGHLQDA PNATSLHVPH SQENSTSLQ EGIQLIHTA TLVCTFLA VIFCLGSYGN P FIVLSFFDP APRKRTNFD FMILNLSFCD LFICGVAPM FTFVLFSSA SSIPDAFCFT FHLTSSGFII MSUKTVAVIA LHLRLMVLGK QPNRTASFCP TVLLTLLWA TSFTLATLAT LKTSKSHLCL PMSLSIAGKG KAILSLYVD FTFCAVAVSV SYIMIAQTLR KNAQVRKCPP VITVDASRPQ PEMGVVQGG GDFIQCAMPA LYRNQYNKL QHVQTRGYTK SPNQLVTPAA SRLQLVSAIN LSTAKDSKAV VTCVIIVLSV LVCCPLGIS LVQVVLSSNG SFILYQFELF GFTLIFFKSG LNPFIYSRNS AGLRRKVLWC LQYIGLGFCC CKQKRLRAM GKNLEVRN KSSHETNSA YMLSPKPQKK FVDAQGSPH SKESMVSPKI SAGHQHCGQS SSTPINTRIE PYYSIYNSSP SQEESPCLNL QPVNSFGFAN SYIAMHYHTT NDLVQYDST SAKQIPVPSV ataacagcat gaagtgcctt ggaactggaa taggcgtgtc ctctccctcg acctccccc A tccttgctcc tctgtccacc cctcgctcgt tccctccctc cggcagaggc cgcctttata acaactgtc agagtgcgag ggcgggatag ctgtccaagg tctccccag cactgaggag ctgcctgtct gccctcttgc gcgcgggaag cagcaccaag ttcaaggcca acgccttggc actagggtcc agaattgcta caacagtcctc tgatgggtgc cgaatggcc tgaatccaa gtactacaga ctttgtgata agctgaagc ttggggcatc gtctagaaa cgggtggccac agccgggggt gtgacctcgg tggccttcac tctcactctc cagatccctg tctgcaaggt gcaggactcc aacaggcga aaatgctgcc tactcagttt ccttccctc tgggtgtgtt gggcatcttt ggcctcacct tgccttcac catcggactg gacgggagca caggggccac acgtttcttc ctctttggga tctcttttc catctgtctc tctgctcgc tggctcatgc tgtcagtcctg accaagctcg tccgggggag gaagccctt tccctgttgg tgattctggg tctggccgtg ggcttcagcc tagtcagga tgttatcgtt attgaatata ttgtcctgac catgaatagg accaacgtca atgtcttttc tgagctttcc gctcctcgc gcaatgaaga ctttgtcttc ctgctcacct acgtctctt cttagtgagg ctagccttcc tcatgtcttc cttcaccttc tgtgttctct tcaagggtcg gaagagacat gggggccaca tctacctcac </p>	Homo sapiens

454	133117 G Protein- Coupled Receptor RAIG1	NP_003970.1	gatgtctctc tccattgcca tctgggtggc ctggatcacc ctgctcatgc ttctgactt tgaccgagc tgggatgaca ccatcctcag ctccgcttg gctgccaatg gctgggtgtt cctgttggt tatgttagtc ccgagttttg gctgctcaca aagcaacgaa accccatgga ttatcctgtt gaggatgctt tctgtaaac tcaactcgtg aagaagagct atggtgtgga gaacagagcc tactctcaag aggaatacac tcaaggtttt gaagagacag gggacacgct ctatgcccc tattocacac atttccagct gcagaacccag cctcccaaaa aggaattctc catccacagg gccacagctt ggcgagccc ttacaaagc tatgaagtaa agaaagagg cagtaaacct tgcctgaag agtgggacaa atgcagccgg gcggcagatc tagcgggagc tcaaagggat gtggcgaaa tcttgagctc tctgagaaa ctgtacaaga cactacggga acagtttgcc tccctccag cctcaaccac aattcttcca tgcctgggct gatgtggct agtaagactc cagttcttag aggcgctga gtattttttt gaccttact ctttttgtt atacttctt taagtgggag tctcaggcaa ctcaagtta gaccttact ctttttgtt gtttttgaa acaggatctt gctctgtcac ccaggttga gtgcagtgtt gcgatacacg cccagtgac cctcgaccac ctgtgctcaa gcaatcctcc catctccatc tcccaagtg ctgggatgac aggggtgagc cacagctccc agctaggcc cttaatcttg ctgttatctt ccatggacta aaggtctggt catctgagct cagctggct cacacagctc taggggctg ctctctaac tcacagtggg tttgtgagg ctctgtggcc cagagcagac ctgcatactc gagcaaaaat agcaaaagcc tctctcagc cactggcctg aatctacact ggaagccaac ttgtggcac cccgctccc caaccttct tgcctgggta ggagagcta aagatcacc taaatctact catctctca gtgctgctc acattggcc tgcagagctc ccagacacca attcacaggt caccctctc ttcttgact gtcccaaac ttgctgtcaa ttcagagatc taatctccc ctacgctctg ccaggaattc tttagacct cactagcaca agccgggtg ctcctgtca ggagaatttg tagatcattc tcaattcaa ttctggggc tgatacttct ctcatcttg acccaacct ctgtaaatag atttaccgca ttacggctg cattctgtaa gtggcatgg tctcctaag gagagtggt catgtataa taagtattc acctgagtat gcaataaaga tgtgggtggc accttctcat ggtggtggca gcaaaaaa aaaaa MATVPDGR NLKSKYRL CDKAEWGI LEVATAGV TSVAFMLTLP ILVCKVQDSN P RRMLPTQFL FLGLVIGIFG LTFALIGLD GSTGTRFFL FGILFICFS CLLAHAVSLT KLVRGRKPLS LLVILGLAVG FSLVQDVIAI EYIVLTMR NVNVSLSA PRNEDFVLL LTYVLFMAL TFLMSSTFC GSFTGWKRHG AHIVLTMLLS IAIWAWITL LMLPDFDRW DDTILSSALA ANGVFLLAY VSPEFWLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEITQGF ETDNLVAPY STHFQLQNP PQKFSIPRA HAWSPYKDY EVKKEGS atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc A acgggcatca cagctctctc catgcccagc tggcagctgg cactgtgggc accagcctac ctggccctgg tgcctgtggc cagcagctac ttcacgtgca atctggcgt ggctgacctc cctcgagga tgcgcacagt caccactac ttcacgtgca atctggcgt ggctgacctc tgcatggctg ccttcaatgc cgcctcaac tttgtctatg ccagccacaa catctggtac tttggcctg ccttctgcta ctccagaac ctctcccca tcaacgcat gttgtcagc atctactcca tgaccgcat tgcctgcgac aggtacatgg ccatctgcca ccccttccag cctcgcttt cagctccag caccagcg gttatgtg tgcctgtggt ggtggctctc gcctggcct cccctcagtg cttctactcc accgtcaca tggaccaggg tggaccacaag	Homo sapiens
455	152198 Tachykinin Receptor 2	NM_001057	atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc A acgggcatca cagctctctc catgcccagc tggcagctgg cactgtgggc accagcctac ctggccctgg tgcctgtggc cagcagctac ttcacgtgca atctggcgt ggctgacctc cctcgagga tgcgcacagt caccactac ttcacgtgca atctggcgt ggctgacctc tgcatggctg ccttcaatgc cgcctcaac tttgtctatg ccagccacaa catctggtac tttggcctg ccttctgcta ctccagaac ctctcccca tcaacgcat gttgtcagc atctactcca tgaccgcat tgcctgcgac aggtacatgg ccatctgcca ccccttccag cctcgcttt cagctccag caccagcg gttatgtg tgcctgtggt ggtggctctc gcctggcct cccctcagtg cttctactcc accgtcaca tggaccaggg tggaccacaag	Homo sapiens

Homo sapiens

P

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HLQAKKKFKV TMVLVLVLTFA ICWLPHYLYF ILGSFQEDYIY CHKFIQQVYL ALFWLAMSST
MYNPIIYCCL NHRFRSGFRL AFRCPPWVTP TKEDKLELTP TTSLSSTRVNR CHTKETLFMA
GDTAPSEATS GEAGRPQDGS GLWFGYGLLA PTKTHVEI

NP_001048.1

152198 Tachykinin Receptor 2

456

Homo sapiens

A

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NM_000369

152201 Thyrotropin Receptor

457

458	152201	Thyrotropin Receptor	NP_000360.1	<p>ggctctctg ggcaatgtct ttgtctctgct tattctctc accagccact acaaacgtgaa cgtooooo gtttctcatgt gcaacctggc ctttgcggat ttctgcattg ggaatgtacct gtctctcatc gctctgttag acctctacac tcaactctgag tactacaacc atgccatoga ctgggcagaca ggccctgggt gcaacacggc ggagcgtggg actgtctctt caagcgagtt atcggtgtat acgtgtacgg tcatcacctt ggcagcgtgg atcgatgttg gggcgtgggt ggcctggac cgggaagatcc gcttcaggca ccatgtgttg atcgatgttg gggcgtgggt ttgtctgttc cttctcgcgc tgcttctctt ggtgggaata agtagctatg ccaaaagtgcg tatctgcctg cccatggaca ccgagacccc ccttgcctcg gcataatatt ttttcttct gagctcaac atagttgctt tctgtcatgt cgtctgtctg catgtgaaga tctacatcac agtcgaaat ccgcagtaca acccagggga caaagatacc aaaaatggcca agaggatggc tgtgttgatc ttacccgact tcatatgcac ggcccacatc tcatctatg cctgtctcgc aatctgaac aagcctctca tcactgttag caactccaaa atctgtctg tactcttcta tcaacttaac tctgtgcca atccattcct ctatgtctatt ttacccaagg ccttccagag ggatgtgttc atctactca gcaagtgttg catctgtaaa cgccaggctc aggcataccg ggggcagagg gttctctcaa agaacagcac tgatattcag gticaaaagg ttaccacga catgaggcag ggtctccaca acatgggaaga tgtctatgaa ctgattgaaa actcccatct aaccctaaag aagcaaggcc aaatctcaga agagtatatg caaacgggtt tgtaagttaa cactacata ctcaaatgg taggggaact taaaaataa tagttcttg aatatgcatt ccaatcccat</p>	Homo sapiens
459	152245	C-C Chemokine Receptor 2	NM_000648	<p>MRADLLQLV LLLDLPRDLG GNCSSPPCE CHQEEDFRVT CKDIQRIPSL PPSTQTLKLI P ETHLTIPSH AFSNLPNISR IYVSIDVTLO QLESHSFYNL SKVTHIEIRN TRNLTYIDPD ALKELPLLF LGFNTGLKM FPDLTKVYST DIFFILEITD NPYMTSIPVN AFQGLCNETL TLKLYNNGFT SVQGYAFNGT KLDVYVINKN KYLTVIDKDA FGVYSGPSL LDVSQTSVTA LPSKGLEHLK ELIARNTWTL KKLPLSLSLF HETRADLSYP SHCCAFKNQK KIRGILESLM CNESMSQSLR QRSVNAI NS PLHQEYEENL GDSIVGYKEK SKFQDTHNNA HYYVFFEEQE DEIGFGQEL KNQEETLOA FDSHYDTIC GSEDVMVCTP KSDEFNPNCE IMGYKFLRIV VMEVSLALL GNVEVLILL TSHYKLVNPR FLMCNLAFA FCMGMYILLI ASVDLYTHSE YVNHAIDWQT GPGCNTAGFF TVEASELSVY TLTVTILERW YAITFAMRLD RKIRLRHACA IMVGGWVCCF LLALLPLVGI SSYAKVSICL PMDTETPLAL AYIVFVLTIN IVAFVIVCCC HVKIYITVRN PQYNPGDKDT KIAKRMVLI FTFDICMAPI SFYALSAILN KPLITVSNK ILLVLFYPLN SCANPFLYAI FTRAFQRDVE ILLSKFGICK RQAQAYRGQR VPPKNSTDIQ VQKVTHDMRQ GLHNMEDVYE LIENSHLTPK KQGQISEEYM QTVL caggactgcc tgagacaagc cacaagctga cagagaaaag tggattgaac aaggacgcac A ttcccagta catccacaac atagctgtcca catctcgttc tgggtttatc agaaatacca acgagagcgg tgaagaagtc accacctttt ttgattatga ttacgggtgc cctgttcata aattgacgt gaagcaaat ggggcccacac tctctcctcc gctctactcg ctggtgttca tctttggttt tgtgggcaac atgtgtgtcg tctcatctt aataaaactgc aaaaagctga agtgttgac tgacatttac ctgctcaacc tggccatctc tgatctgctt ttcttatta ctctcccat gtgggctcac tctgtgtcaa atgagtgggt cttggggaat gcaatgtgca aattattcac agggctgtat cacatcggtt attttggcgg aatctcttc atcatcctcc tgacaatcga tagatacctg gctattgttc atgtgtgtt tgctttaaaa gccaggacgg</p>	Homo sapiens

460	152245 C-C	NP_000639.1	Chemokine Receptor 2	<p> tccactttgg ggtggtgaca agtgtgatca cctggttggt ggctgtgttt gcttctgtcc caggaatcat ctttactaaa tgcagaaaag aagattctgt ttatgtctgt ggccttatt ttccacgagg atggaataat ttccacacaa taatgaggaa cattttgggg ctggtctctgc cgctgctcat catggtcatc tgcactcgg gaatccctgaa aacctgctt cgggtgcgaa acgagaagaa gaggcatagg gcagtgagag tcatctcac catcatgatt gtttacttcc tcttctggac tccataaac atgtctattc tctgaacac cttccaggaa ttcttcggcc tgagtaactg tgaagacc accaactgg accaagccac gcaggtgaca gagactcttg ggatgactca ctgctgcatc aatcccatca tctatgcctt cgttggggag aagttcagaa ggtatctctc ggtgtcttc cgaagcaca tcaccaagcg cttctgcaa caatgtccag ttttctacag ggagacagtg gatggagtga cttcaacaaa cagccttcc actggggagc aggaaagtcc ggtggttta taaaacgagg agcagtttga ttgtgttta taaagggaga taacaatctg tatataacaa caaactcaa ggttttgttg aacaatagaa acctgtaaa caggtgccca ggaacctcag ggtgtgtgt actaatacag actatgtcac ccaatgcata tccaacatgt gctcagggaa taatccagaa aaactgtgg tagagacttt gactctccag aaagctcatc tcagctcctg aaaatgcct cattacttg tgctaatcct cttttctag tcttcataat ttctcactc aatctctgat tctgtcaatg tctgaaatc aagggccagc tgagggtgaa gaagagaatg tgacaggcac agatgaatgg gagtgaggga tagtggggtc agggctgaga ggagaaggag ggagacatga gcattgctga gcctggacaa agacaaaagt gagcaaaagg ctacgcatt cagccaggag atgatactgg tcttagccc catctgccac gtgtatttaa ccttgaaggg ttccaccaggg cagggaactg ttgggaactg caataacctg ggagttttgg tggagtccga tgattctctt tgcataaagt gcattgacata ttttgcctt attacagttt atctatggca cccatgcacc ttacatttga aatctatgaa atatcatgct ccattgttca gatcttctt agggcacatc cccctgcta aaaaattcaga aaattttgt ttataaaaga tgcattatct atgatatgct aatatatga tatgcaatat aaaatttag MLVLSRSRFI RNTNESGEEV TTFDDYDGA PCHKFDVKQI GAQLPPLYS LVFIFGVGN P MLVLIILINC KKLKLTDIY LNLAIIDL FLITPLWAH SAANEWVFGN AMCKLFTGLY HIGYFGGIF IILLTIDRYL AIVHAVFALK ARTVTFGVV SVITWLVAVF ASVPGIIFTK CQKEDSVVVC GPYPRGMN FHTIMRNILG LVLPILIMVI CYSGILKTL RCRNEKKRHR AVRVIPTIMI VFLEWTPYN IVILLNTFQE FFLSNCEST SQDQATQVT ETLMTHCCI NPILYAFVGE KFRYLSVFF RKHITKRFCK QCPVYRETV DGVTSINTPS TGEQEVSAGL CAGAAATCCT CAGGTCCAC AGAATGAAC ACGTTTCTA AAATAAAGTC AAGCCAAGCT A GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGTGGCTT CCTTCCTGAG GCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC AATTGATGAG TAAGTGAAA TAGGGAACC AAGTCAGAG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAGTT AAGTCAAGGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCAGGTG TGAAGCTGGG GTTGAGGATC CATPATCTGA ATTTTCCACT CTATGGATGA TCACITTTAT TCTTTTCTT TTTCTGAATT TATTTCCATT TGTATTTC TAAATTCCT GGTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATPAAGAA TAAAGGGGGA AGGATTTGAC TTACAGAGAG AGACTTCAGA AGGATCCTC TCTAGGAGCA AATTGGGGG AATCCAGTGG GAAGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT </p>	Homo sapiens
461	152299 Interleukin-8 Receptor A	LG5459		<p> tccactttgg ggtggtgaca agtgtgatca cctggttggt ggctgtgttt gcttctgtcc caggaatcat ctttactaaa tgcagaaaag aagattctgt ttatgtctgt ggccttatt ttccacgagg atggaataat ttccacacaa taatgaggaa cattttgggg ctggtctctgc cgctgctcat catggtcatc tgcactcgg gaatccctgaa aacctgctt cgggtgcgaa acgagaagaa gaggcatagg gcagtgagag tcatctcac catcatgatt gtttacttcc tcttctggac tccataaac atgtctattc tctgaacac cttccaggaa ttcttcggcc tgagtaactg tgaagacc accaactgg accaagccac gcaggtgaca gagactcttg ggatgactca ctgctgcatc aatcccatca tctatgcctt cgttggggag aagttcagaa ggtatctctc ggtgtcttc cgaagcaca tcaccaagcg cttctgcaa caatgtccag ttttctacag ggagacagtg gatggagtga cttcaacaaa cagccttcc actggggagc aggaaagtcc ggtggttta taaaacgagg agcagtttga ttgtgttta taaagggaga taacaatctg tatataacaa caaactcaa ggttttgttg aacaatagaa acctgtaaa caggtgccca ggaacctcag ggtgtgtgt actaatacag actatgtcac ccaatgcata tccaacatgt gctcagggaa taatccagaa aaactgtgg tagagacttt gactctccag aaagctcatc tcagctcctg aaaatgcct cattacttg tgctaatcct cttttctag tcttcataat ttctcactc aatctctgat tctgtcaatg tctgaaatc aagggccagc tgagggtgaa gaagagaatg tgacaggcac agatgaatgg gagtgaggga tagtggggtc agggctgaga ggagaaggag ggagacatga gcattgctga gcctggacaa agacaaaagt gagcaaaagg ctacgcatt cagccaggag atgatactgg tcttagccc catctgccac gtgtatttaa ccttgaaggg ttccaccaggg cagggaactg ttgggaactg caataacctg ggagttttgg tggagtccga tgattctctt tgcataaagt gcattgacata ttttgcctt attacagttt atctatggca cccatgcacc ttacatttga aatctatgaa atatcatgct ccattgttca gatcttctt agggcacatc cccctgcta aaaaattcaga aaattttgt ttataaaaga tgcattatct atgatatgct aatatatga tatgcaatat aaaatttag MLVLSRSRFI RNTNESGEEV TTFDDYDGA PCHKFDVKQI GAQLPPLYS LVFIFGVGN P MLVLIILINC KKLKLTDIY LNLAIIDL FLITPLWAH SAANEWVFGN AMCKLFTGLY HIGYFGGIF IILLTIDRYL AIVHAVFALK ARTVTFGVV SVITWLVAVF ASVPGIIFTK CQKEDSVVVC GPYPRGMN FHTIMRNILG LVLPILIMVI CYSGILKTL RCRNEKKRHR AVRVIPTIMI VFLEWTPYN IVILLNTFQE FFLSNCEST SQDQATQVT ETLMTHCCI NPILYAFVGE KFRYLSVFF RKHITKRFCK QCPVYRETV DGVTSINTPS TGEQEVSAGL CAGAAATCCT CAGGTCCAC AGAATGAAC ACGTTTCTA AAATAAAGTC AAGCCAAGCT A GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGTGGCTT CCTTCCTGAG GCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC AATTGATGAG TAAGTGAAA TAGGGAACC AAGTCAGAG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAGTT AAGTCAAGGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCAGGTG TGAAGCTGGG GTTGAGGATC CATPATCTGA ATTTTCCACT CTATGGATGA TCACITTTAT TCTTTTCTT TTTCTGAATT TATTTCCATT TGTATTTC TAAATTCCT GGTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATPAAGAA TAAAGGGGGA AGGATTTGAC TTACAGAGAG AGACTTCAGA AGGATCCTC TCTAGGAGCA AATTGGGGG AATCCAGTGG GAAGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT </p>	Homo sapiens

462	152299 Interleukin-8 Receptor A	NM_000634	agctgttaag tcactctgat ctctgactgc agctcctact gttggacaca cctggccggt A	Homo sapiens
			gcttcagtta gatcaaacca ttgtgaaac tgaagaggac atgtcaataa ttacagatcc	
			acagatgtgg gattttgatg atctaaattt cactggcatg ccacctgcag atgaagatta	
			cagccctgt atgtagaaa ctgagacact caacagtat gttgtgatca tgcctatgc	
			cctagtgttc ctgtgagcc tgctgggaaa cctcctgggt atgtgtgtca tctatacag	
			cagggtcggc cgctccgtca ctgatgtcta cctgctgaac ctggccttgg ccgacctact	
			ctttgcccctg accttgccca tctggggccg ctccaagggt aatggctgga tttttggcac	
			attcctgtgc aaggtggtct cactcctgaa ggaagtcaac ttctacagtg gcatcctgct	
			gttggcctgc atcagtgtgg accgttaacct ggccattgtc catgccacac gcacactgac	
			ccagaagcgt cacttggtea agtttgtttg tcttggctgc tggggactgt ctatgaatct	
			gtccctgccc ttcttccctt tccgccaggc ttaccatcca acaattcca gtccagtttg	
			ctatgaggtc ctgggaaatg acacagcaaa atggcggtat gtgttgcgga tcttgcctca	
			caactttggc ttcatcgtgc cgctgtttgt catgctgttc tgctatggat tcacctgcg	
			tacactgttt aaggccaca tggggcagaa gcaccgagcc atgagggtca tctttgctgt	
			cgctcctc ttctgcttt gctggctgcc ctacaacctg gtctgtctgg cagacacctt	
			catgaggacc caggtgatcc aggagagctg tgagcgccgc aacaacatcg gccggccct	
			ggatgccact gagattctgg gatttctoca tagctgctc aacccatca tctacgcctt	
			catcgcccaa aattttcgcc atggattcct caagatcctg gctatgcatg gcttgggtcag	
			caaggagttc ttggcacgtc atcgtgttac ctctacact tcttctgtctg tcaatgtctc	
			ttccaacctc tgaaaacct cgatgaagga atatctcttc tcagaaggaa agaataacca	
			acacctgag gtgtgtgtg gaaggtgac ttggtctgga caggcactat ctgggttttg	
			gggggacgct ataggatgtg gggaagttag gaactgtgt cttcaggggc cacaccaacc	
			ttctgaggag ctgttgaggt acctccaaag accggccttt gcacctcat ggaaacgaag	
			caccatcatt cccgttgaa cgtcacatct taaccacta actggctaag tagcatggcc	
			acatctgagc cccgaatctg acattagatg agagaacagg gctgaagctg tgtcctcatg	
			agggtctgat gctctcgttg acctccacag gagcatctcc tcaactctga gtgttaagcg	
			ttgagccacc aagctgtgtg ctctgtgtgc tctgatacga gctcaggggg gtggttttcc	
			catctcaggt gtgttgagtt gtctgtctga gacattgagg caggcactgc caaaacatca	
			acctgccagc tggccttgtt aggagctgga aacacatgtt ccccttgggg gtggtggatg	
			aacaaagaga aagagggttt ggaagccaga tctatgccac aagaaccccc ttaccacca	
			tgaccaacat cgcagacaca tgtgtcggcc acctgtctgag ccccaagtgg aacgagacaa	
			gcagccctta gccctcccc tctgcagctt ccaggctggc gtgcagcatc agcatcccta	
			gaaagccatg tgcagccacc agtccattgg gcaggcagat gttcctaata aagcttctgt	
			tcogtgcctg tccctgtgga agtatcttgg ttgtgacaga gtcaagggtg tgtcagcat	
			tgttggctgt tcttgcagta gaatgggggc agcacctcct aagaaggcac ctctctgggt	
			tgaagggcag tgttccctgg ggctttaact cctgctagaa cagtctcttg aggcacagaa	
			actcctgttc atgccatac ccttggccaa ggaagatccc ttgtccaca agtaaaagga	
			aatcctcctc caggaggtct cagcttcacc ctgagggtgag catcatcttc tgggttaggc	
			cttgcctagg catagcctgc ctcaagctat gtgagctcac cagtccctcc ccaaagtctt	
			tccatgagtt gcagtttttt cctagtctgt ttccctcct tggagaacag ggcctgtctg	
			gtttgttccac tgtatgtcct tgggtgcctgg agcctactaa atgtcctaata aataatgatc	

463	152299	Interleukin-8 Receptor A	NP_000625.1	MSNITDPQMW DEFDLNFTGM PPADEYSPC MLETETLNKY VVIAAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLEAL TLPWAASKV NGWIFGTFLC KVVSLLKEVN FYSGILLIAC ISVDRYLAIV HATRTLQKR HLKFKVCIGC WGLSMNLSLP FFLFRQAYHP NNSSPVCYEV LGNDTAKWRM VLRILPHTFG FIVPLFVLMF CYGFTLRILF KAHMGQKHRA MRVIFAVVLI FLLCWLPLYNL VLLADTLMRT QVIQESCRN NNIGRALDAT EILGFLHSCL NPILYAFIGQ NFRHGFLKIL AMHGLVSKEF LARHRTSYT SSSVNVSSNL	Homo sapiens
464	158822	Mas Proto-Oncogene	NM_002377	cctgaggcct cctcatggat gggtcaaacg tgacatcatt tgtgtgtgag gaaccacga A acatctcaac tggcaggagc gctcagtcg ggaatgcaca tcggcaaatc cccatcgtgc actgggtcat tatgagcatc tcccagtggt gggtgtgtga gaatgggatt ctctctgtgt tctgtgtcct ccggtatgaga agaaatccct tcaatgtcta catcacccac ctgtctatcg cagacatctc actgctcttc tgtattttca tctgtctat cgactatgct ttagattatg agctttcttc tggccattac tacacaattg tcacattatc agtgactttt ctgtttgtgt acaacacggg cctctatctg ctgacggcca ttagtgtgga gaggtgcctg tcagtccttt accccatctg gtaccgatgc catcgcccca agtaccagtc ggcatgtgct tgtgcccttc tgtgggctct ttctgtcttg gtgaccacca tggagtatgt catgtgcac tcacagagaag aagagagtca ctctcggaat gactgccgag cagtcacatc ctttatagcc atcctgagct tctgtgtcct cagccctc atgctgtgtg ccagcaccat cttgggtcgt aagatccgga agaacacgtg ggcttcccat tctcccaagc ttacatagtc catcatggtc accatcatta tatctctcat ctctgctatg cccatgagac tctttacat gctgtactat gagtattggt cgacctttgg gaacctacac cacatttccc tgcctcttc cacaatcaac agtagcgcca accctttcat ttacttcttt gtgggaagca gagattcaag gagtccttaa aagttgtct gaccagggt tcaaaagatg aaatgcaacc tcggcgccag aaagacaatt gtaatacggg cacagttgag actgtcgtct agaaactgtg agggaagtgt tggataaaaa tgggtgaaca caggtcatat ttagttgtg cttggaaatg gacttaagta tctcctaaat gtatacaga agaactctc atcccatatg catgagatc taattaatga tgaaa MDGSNVTSTFV VEETNISTG RNASVGNHR QIPVHWVIM SISPVGFVEN GILLWFLCFR P YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS CLVTTMEYVM CIDREEESH MRNPFTVYI THLSIADISL LFCIFILSID YALDYELSSG HYTIVTISV TFLFGYNTGL RNDRAVITF IATLSFLVFT PLMLVSTIL VVKIRKNTWA SHSKLYIVI MVTIIIFLIF AMPRLLYLL YYEYWTSTFGN LHHISLLEST INSSANPFYI FVVGSSKKR FKESLKVLT RAFKDEMQR RQKDNCTVT VEIVV	Homo sapiens
465	158822	Mas Proto-Oncogene	NP_002368.1	atgctgccgg actgaagag ctccttgatc ctcattgctt acatcatcat cttctcact A ggctccctgg ccaactcct ggccctgagg gctttgtgg ggcggatccg ccagccccag cctgcacctg tgcacatct cctgctgagc ctgacgtcgg ccgacctct cctgctgctg ctgtcgccct tcaagatcat cgaggctgag tcgaacttcc gctggtaacct gcccaaggct gtctgcgcc tcacgagttt tggcttctac agcagcatct actgcagcac gtggctcctg gggggcatca gcatcgagcg ctacctggga gtggcttcc ccgtgcagta caagctctcc cgccggcctc tgtatggagt gattgcagct ctggtggcct gggttatgtc ctttgggtcac tgcaccatcg tgatcatcgt tcaatacttg aacacgactg agcagggtcag aagtggcaat	Homo sapiens
466	159152	G Protein-Coupled Receptor GPR43	NM_005306		Homo sapiens

467	159152	G Protein- Coupled Receptor GPR43	NP_005297.1	gaaattacct gctacagagaa cttcaccgat aaccagttgg acgtggtgct gcccggtgagg ctggagctgt gctgtgtgct cttcttcac cccatggcag tcaccatctt ctgtactctg cgttttgtgt ggtatcatgt ctccagccc cttgtgggg cccagaggcg gcgccgagcc gtggggctgg ctgtgtgtgac gctgtcctaat ttctgtgtgt gcttcggacc ttacaacgtg tcccacctgg tggggtatca ccagagaaaa agccctctgt ggcgttcaat agccgtgtgt ttcagttcac tcaacgccag tctggacccc ctgtctctct attctctctt ttcagtggtg cgacgggcat ttgggagagg gctgcagggt ctgcggaate agggctctct cctgttgga cgacagggca aagacacagc agaggggaca aatgaggaca ggggtgtggg tcaaggagaa ggatgccaa gttcgacct cactacagag tag MLPDKSSLI LMAYIIIFLT GIPANLLALR AFVGRIRQPQ PAPVHILLLS LTLADLLLLL P LLPFKIEAA SNFRWYLPKV VCALTSFGFY SSIYCSTWLL AGISIERYLQ VAFPVQYKLS RRPLYGVIAA LVAWMSFGH CTIVIIQYXL NTTEQVRSNG EITCYENFTD NQLDVLPVR LELCVLFFI PMAVTIFCYW RFVIMLSQP LVGAQRERRA VGLAVVTLN FLVCFGPYNV SHLVGYHQK SPWRSIAV FSSINASLDP LLFYFSSSV RRAFGRGLQV LRNQGSSLLG RRGKDTAEGT NEDRGVQGE GMPSSDFTTE	Homo sapiens
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	NM_004624	ggcacaggc cagcgccact ctgccaggct cccggccatc gcccgccctg tgcgccgcc A gccagctctt tgcgcgcgcg gggccgccc cccggggctc agggcagacc atgcgccgc caagtccgt gccgcgcgcg tggctatgct gctgtggcag cgcctcgc tggcccttg ggccggcggg cggccaggcg gccaggctgc aggaggagtg tgactatgt cagatgatcg aggtgcagca caagcagtc ctggaggagg cccagctgga gaatgagaca ataggctgca gcaagatgt ggacaacct acctgctgc cagccacctc tccggtggcc gtagttgtct tggcctgtcc cctcatctc aagctctct cctccattca aggcggcaat gtaagccgca gctgcaccga cgaaggctgg acgcacctg agcctggccc gtacccatt gctgtgtgtt tggatgacaa ggcagcagat ttggatgagc agcagacct gtctacggt tctgtgaaga ccggctacac cattggctac ggcctgtccc tggccacct tctgtgtgcc acagctatcc tgagcctgtt caggaagctc cactgcacgc gaaactacat ccacatgcac ctcttcata cttcatcct gagggctgcc gctgtcttca tcaaaagactt ggccctcttc gacagcgggg agtgcgacca gtgtcccgag ggtcgggtgg gctgtaaagg agccatggtc tttttccaat attgtgtcat ggttaacttc tctgtgtgc tgggtggagg cctctacctg tacacctgc ttgcggtctc ctctctctct gagcgaagt actctgggg gtacatactc atcggtgtgg gggtacccag cacttcacc atggtgtgga ccatcgccag gatccatttt gaggattatg gggtctggga caccatcaac tctcactgt ggtggatcat aaaggggccc atctcacct ccatcttgtt aaacttcac ctgtttattt gcatcatccg aatcctgctt cagaaactgc ggccccaga tatcaggaag agtgacagca gtccatactc aggttagcc aggtccacac tctctgtgat cccctgttt ggagtacact acatcatgtt cgccttcttt ccggacaatt ttagcctga agtgaagatg gtctttgagc tegtctgtgg gtctttccag ggttttgtgg tggctatcct ctactgttc ctaaatggtg aggtgcagg gtagctgagg cggaaagtgc ggcgtggca cctgcagggc gtctgtggct ggaaccccaa atacggcac ccgtcgggag gcagcaacgg cggccagctg agcaagcagg ttccatgct gaccgcgtc agcccaggtg ccgcgcgtc ctccagctc caagccgaag tctccctggt ctgaccacca ggtatccagg ggcccaaggc ggccctctcc actcaccctc gcagacgccc gggacagagg	Homo sapiens

469	159973	Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2	<p> cctgccccg cgcgcccg cccggccctg ggctcggagg ctgcccccg cccctggctc tctggtccg acactcctag agaagcagc cctagagcct gccggagcg tttctagcaa gtgagagaga tgggagctcc tctcctggag gattgcaggt ggaactcagt cattagactc ctcctccaaa ggccccctac gccaatcaag ggcaaaaaagt ctacatactt tcatectgac tctgccccct gctggctctt ctgcccaatt ggaggaagc atccggtgga tectcaaaa acactggtgt gacctgaggg cagaaagggt ctgccccggg aaggtcacca gcaccaaac caggttagtg cctgaaattt caccattgct gtcaagttcc ttgggttaa gcttaccac tcaggcattt gactgaagat gcagctcact acctattct ctctttacgc ttagtattca gctttttaa gtgggttatt ctggagtttt tgtttggaga gcacacctat cttagtgttt ccccaccgaa gtggactggc cctgggttca gtctggtggg aggacggtgc aaccgaagg ctgagggact ctgaagcctc tgggaaatga gaaggcagcc accagcgaat gctaggcttc ggactaagcc tactctgctc ccaagtctca gtggcttcat ctgtcaagtg ggatctgtca cacagccat acttatctct ctgtgctgtg gaagcaacag gaatcaagag ctgcccctct tgtccacca cctatgtgcc aactgttga actaggctca gagatgtgca ccatgggct ctgacagaaa gcagatacct caccctgcta cacatacagg atttgaactc agatctgtct gataggaatg tgaagcacg gactcttact gctaaacttt gtgtatcgta accagccaga tctcttgggt tatttgttta ccaattgtat tattaatgcc attatcctga attccccctg ccaccaccac ctccctggcg tgtggctgag gaggcctcca tctcatgtat catctggata ggagcctgct ggtcacagcc tctctgtct cccttcacc ccagtggcca ctacgcttcc taccacacc tctgccagaa gatccccctca ggactgcaac aggtctgtgc aacaataaat gttggtctgg a </p>	<p> MRPSPPLPAR WLCVLGALA WALGPAGGQA ARLOECDYV QMIEVQHKQC LEEAQLENET P IGSKMWDNL TCWATPRGQ VVVLACPLIF KLFSSIQGRN VSRCTDEGW THLEPGPYPI ACGLDDKAAS LDEQTMFYG SVKTYTIGY GLSLATLLVA TAILSLFRKL HCTRNYIHMH LFTSFILRAA AVFKDLALF DSGESDQCE GSVGCKAAMV FFQYCVMANF FWLIVEGLYL YTLAVSFFS ERKYFWGYIL IGWGVSTFT MWTLARIHF EDYGCWDTIN SSLWIIKGP ILTSILVNF IFTICIRILL QKLRPPDIRK SDSPYSRLA RSTLLILPLF GVHYIMFAFF PDNFKPEVKM VFELVGSFQ GFVVAILYCF LNGEVQAEIR RKWRWHLQG VLGWNPKYRH PSGSGNGATC STQVSMLTRV SPGARSSSF QAEVSLV </p>	Homo sapiens
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	NM_003382	<p> cgggacgag ggccggcccc cgcgtcggg ggcctcggct acagctgcgg ggcccagagt A ctccgcgac tgcctcccg cccatgctgg agcgccgga acccgggga cctaggacgg aggcgccgg cgcctggcg ccccgccac gctgagctcg ggatgcggac gctgctgcct cccgctgc tgacctgctg gctgctgcc cccgtgaaca gcattcacc gaatgcga tttcaatctg aatacagga ggaagaaaca aatgtacag agcttctgag gctcctcaaca gaaaaacaca aagcctgcag tggcgtctgg gacaacatca cgtgctggcg gcctgccaat gtgggagaga ccgtcacggt gccctgcccc aagctcttca caattttta cagcaaaaga ggaacataa gcaaaaactg tacagtgac ggtgggtcag agacgttccc agattctgtc gatgcctgtg gctacagcga ccggaggat gagagcaaga tcaagtttta tattctggtg aaggccattt ataccctgg ctacagtgc tctctgatgt ctcttgcaac aggaagcata attctgtgcc tcttcaggaa gctgactgc accaggaatt acatccacct gaactgttc ctgtccttca tcttgagagc catctcagtg ctggtcaagg acgacgttct ctactccagc </p>	<p> cgggacgag ggccggcccc cgcgtcggg ggcctcggct acagctgcgg ggcccagagt A ctccgcgac tgcctcccg cccatgctgg agcgccgga acccgggga cctaggacgg aggcgccgg cgcctggcg ccccgccac gctgagctcg ggatgcggac gctgctgcct cccgctgc tgacctgctg gctgctgcc cccgtgaaca gcattcacc gaatgcga tttcaatctg aatacagga ggaagaaaca aatgtacag agcttctgag gctcctcaaca gaaaaacaca aagcctgcag tggcgtctgg gacaacatca cgtgctggcg gcctgccaat gtgggagaga ccgtcacggt gccctgcccc aagctcttca caattttta cagcaaaaga ggaacataa gcaaaaactg tacagtgac ggtgggtcag agacgttccc agattctgtc gatgcctgtg gctacagcga ccggaggat gagagcaaga tcaagtttta tattctggtg aaggccattt ataccctgg ctacagtgc tctctgatgt ctcttgcaac aggaagcata attctgtgcc tcttcaggaa gctgactgc accaggaatt acatccacct gaactgttc ctgtccttca tcttgagagc catctcagtg ctggtcaagg acgacgttct ctactccagc </p>	Homo sapiens

471	160040	Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	<p> tctggcacgt tgcactgccc tgaccagcca tcctcctggg tgggctgcaa gctgagcctg gtcttcctgc agtactgcat catggccaac ttcttctggc tgctggtgga ggggctctac ctccacaccc tcttggtggc catgtccccc cctagaaggt gcttccctgc ctaccctctg atcggtatgg gcttccccc cgtctgcatc ggtgcatgga ctgcgccag gctctactta gaagacaccc gttgctggga tacaacgac cacagtgtgc cctggtgggt catacgaata cagattttaa ttccatcat cgtcaatttt gtcctttta ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtggc ggcaacgacc agtctcagta caagaggctg gccaagtcca cgtctctgct tateccgctg ttccggctcc actacatggt gtttgccctg tttcccatca gcatctctc caaataccag atactgtttg agctgtgctt cgggtcgttc cagggcctgg tgggtggcgt cctctactgt ttctggaaca gtgaggtgca gtgcgagctg aagcgaataat ggcgaagccg gtgcccgaac ccgtccgcca gccgggatta cagggtctgc ggttctctct tctccacaaa cggctcgag ggcgctgc agtccaccg cgcgtcccca gccagtcct tctgcaaac ggagacctcg gtcactagc cccacccctg cctgtcggac gcggcgagg gccacgggtt cggggtctt cgggggctga gacgcggctt tctctctcc agatgccccg gcaccgtgc gggcaggta ggcggtctt gactccgtca agctggttgt ccactaaacc ccatacctg </p>	<p> Homo sapiens </p>
472	160055	Motilin Receptor (GPR38)	NM_001507	<p> atgggcagcc cctggaacgg cagcgacggc cccgaggggg cgcgggagcc gccgtggccc A gcgtgccgc cttgcgacga gcgcgctgc tcgcccttcc cctgggggc gctggtgccg gtgaccgctg tggcctgtg cctgttcgtc gtcggggtga gcggcaact ggtgaccgtg atgtgatcg ggcgtaccc ggacatgcgg accaccacca acttgtacct gggcagcatg gcgtgtccg acctactcat cctgtcggg ctgcgcttcg acctgtacc cctctggcgc tcgcggccct ggtgttcgg gcgctgctc ggcctcactt gctctactg ggcgagggc tgcaacctac ccacgtgct gcacatgacc ggccttggtc accggcgcc cctggccatc tgccgcccgc tcgcggccc gctcttggtc ggtcccttct tgttctcgtt ggcgtcag gtgctctgg ccgtggcgt gctctcgtc agtcccgcc ctcaatggca cgcgcggat cgcctcctg caggacccc gcatctcct gctcggcgc tcttggtc tgcggggc caccgccc cccgcccgtg cctctgctt cgtcggccc tcttggtc tgcggggc ttacagccgg aatgccggc gagccccg ggccccaga ccgcgaggc cgggctcatc gggcgggagc tgtggagcag ccggcgccg cagctggcg cgtgctgtt catgctgtg gtacaccacg cctacttctt cctgcccctt ctgtgctca gcatcctta cgggctcatc gggcgggagc agagggcacc ccggtccctg ctgcgaggg ccgcccctc gggcgggag agagggcacc gccagaccgt ccggtccctg ctggtggtg tctggcatt tataatttc tgggtggctt tccacgttgg cagaatcatt tacataaaca cgaagattc gggatgatg tacttctct agtactttaa catcgtcgt </p>	<p> Homo sapiens </p>

473	160055	Motilin Receptor (GPR38)	NP_001498.1	ctgcaacttt tctatctgag cgcattctatc aaccaatcc tctacaacct catttcaaag aagtacagag cggcgccctt taaactgctg ctgcgaagga agtccaggcc gagaggcttc cacagaagca gggacactgc gggggaagt gacggggaca ctggaggaga cacggtgggc tacaccgaga caagcgctaa cgtgaagacg atgggataa MLIGRYDMR TTNLYLGM AVSLLILG LPFDLYLRMR SRPWVFGPLL CRSLXYVGE CTYATLLHMT ALSVERYLAI CRPLRARVLV TRRRVRALIA VIMAVALLSA GPFLLVGE QDFGISVVP LINGTARIAS PLASSPPLWL SRAPPPSPS GPETAEEAAL FSRECRPSA QLGALRVMLW VTTAYFFLPF LCLSLYGLI GRELWSSRRP LRGPAAAGRE RGHRTQTVRL LVVVLAFIIC WLPFHVGRII YINTEDSRM YFSQYFNIVA LQLFYLSASI NPILYNLISK KYRAAFAKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG atggacctgc ccccgagct ctctctggc ctctatgtg cgcctttgc gctgggcttc A cgcctcaacg tectggccat cggaggcgc agggcccaag cccggctccg tctcacccct agcctggctc acgcccgtga cctgggctgc tccgacctgc tgcagacagt ctctctgccc ctgaaggcgg tggaggcgt agcctccggg gctggcctc tgcgggctc gctgtgcccc gtcttcggcg tggccactt ctcccaactc tatgcccgg ggggcttctt ggcgcctg agtgcaggcc gctacctgg agcagcctc cctttggct accaagcctt ccggaggcgg tgcattctct ggggggtgtg cgcggccatc tgggcccctg tctgtgtca cctgggtctg gtctttgggt tggaggctcc agggagctgg ctggacctc ggaacacctc cctgggctc aacacaccgg tcaacggctc tccggtctgc ctggaggcct gggaccggc ctctgcccgc cgggcccgtc tcaactctc tctctgctc tctctgctc tttttctgc cctggccat cacagcctc tgcactgtgg gctgctcccg ggcactggcc cgcctcggc tgacgcacag gcggaagctg cgggcccgtt ggttgcccg cggggccctc ctcacgctgc tgcctgtcgt aggacctac aacgctcca acgtggccag ctctctgtac ccaactctag gaggctcctg ggggaagctg gggtccatca cgggtgctg ggtgtggtg cttaatccgc tggtagccgg ttacttggga aggggtcctg gctgaagac agtgtgtgcg gcaagaacgc aagggggcaa gtccagaag taa	Homo sapiens
474	160059	G Protein- coupled Receptor GPR40	NM_005303	atggacctgc ccccgagct ctctctggc ctctatgtg cgcctttgc gctgggcttc A cgcctcaacg tectggccat cggaggcgc agggcccaag cccggctccg tctcacccct agcctggctc acgcccgtga cctgggctgc tccgacctgc tgcagacagt ctctctgccc ctgaaggcgg tggaggcgt agcctccggg gctggcctc tgcgggctc gctgtgcccc gtcttcggcg tggccactt ctcccaactc tatgcccgg ggggcttctt ggcgcctg agtgcaggcc gctacctgg agcagcctc cctttggct accaagcctt ccggaggcgg tgcattctct ggggggtgtg cgcggccatc tgggcccctg tctgtgtca cctgggtctg gtctttgggt tggaggctcc agggagctgg ctggacctc ggaacacctc cctgggctc aacacaccgg tcaacggctc tccggtctgc ctggaggcct gggaccggc ctctgcccgc cgggcccgtc tcaactctc tctctgctc tctctgctc tttttctgc cctggccat cacagcctc tgcactgtgg gctgctcccg ggcactggcc cgcctcggc tgacgcacag gcggaagctg cgggcccgtt ggttgcccg cggggccctc ctcacgctgc tgcctgtcgt aggacctac aacgctcca acgtggccag ctctctgtac ccaactctag gaggctcctg ggggaagctg gggtccatca cgggtgctg ggtgtggtg cttaatccgc tggtagccgg ttacttggga aggggtcctg gctgaagac agtgtgtgcg gcaagaacgc aagggggcaa gtccagaag taa	Homo sapiens
475	160059	G Protein- coupled Receptor GPR40	NP_005294.1	MDLPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRLTP SLVYALNLGC SDLLTVSLP P LKAVEALASG AWPLPASLCP VFAVAHFFPL YAGGGFLAAL SAGRYLGAAP FLGYQAFRRP CYSWGVCAAI WALVLCHLGL VFGLEAPGGW LDHNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLIL FFLPLATAF CYVGLRALA RSGLTHRRKL RAHVAVAGGAL LTLLLCVGPY NASNVASFLY PNLGSSWRKL GLITGAWSVV LNPILVTGYLG RGPLKTVCA ARTQGGKSQK atgcacaccg tggctacgtc cggaccacac gcgtcctggg gggcaccggc caacgctcc A ggctgcccgg gctgtggcgc caacgctcg gacggcccaag tccctcgcg gggggccgtg gacgctggc tegtgcgtt ctcttcgcg gctgtgatgc tgcgtggcct ggtggggaac tgcgtgtca tctaactcat ctgcccacac aagccgatgc gaccgtgac caacttctac atcgcccaac tggcgccac ggaactgacc ttcctcctgt gctgcgtccc ctccacggcc ctgctgtacc cgtgcccgg ctgggtgctg gggacttca tgcgaagt cgtcaactac atccagcagg tctcgggtga ggcacgtgt gcaacttga cgcctatgag tctggaccgc tggtagctga cgtgttccc gttgcgccc ctgacccgc gcaagcccc gctggcgctg gctgtcagcc tcagcatctg gtaggctct cggcgcggtg ctgcgcccgt gctgcgccctg	Homo sapiens
476	160189	G Protein- Coupled Receptor GPR54	NM_032551	atgcacaccg tggctacgtc cggaccacac gcgtcctggg gggcaccggc caacgctcc A ggctgcccgg gctgtggcgc caacgctcg gacggcccaag tccctcgcg gggggccgtg gacgctggc tegtgcgtt ctcttcgcg gctgtgatgc tgcgtggcct ggtggggaac tgcgtgtca tctaactcat ctgcccacac aagccgatgc gaccgtgac caacttctac atcgcccaac tggcgccac ggaactgacc ttcctcctgt gctgcgtccc ctccacggcc ctgctgtacc cgtgcccgg ctgggtgctg gggacttca tgcgaagt cgtcaactac atccagcagg tctcgggtga ggcacgtgt gcaacttga cgcctatgag tctggaccgc tggtagctga cgtgttccc gttgcgccc ctgacccgc gcaagcccc gctggcgctg gctgtcagcc tcagcatctg gtaggctct cggcgcggtg ctgcgcccgt gctgcgccctg	Homo sapiens

338/448

477	160189	G Protein- Coupled Receptor GPR54	NP_115940.1	<p>caccgcctgt caccggggcc ggcggcctac tgcagtgagg ccttccccag ccgcgccctg gagcgcgctc tgcactgta caactgtcg ggcctgtacc tgcctgcgct gctgcgccacc tgcgccctgt atcgggccat gctgcgccac ctgggcccgg tgcctgtgag ccccgccccc gcgcatagcg cctgcaggcg gcagtgctcg gcagagccgt gcgggccaag gcgggccaag gtctcgccgc tgggtggcgc cgtgggtcctg ctcttcgccc cctgctgggg ccccatccag ctgttcctgg tgcctgcagg gctggggccc gggggctcct ggcacccacg cagctacgcc gctacgcgc ttaagacctg ggtcactgc atgtctaca gcaactccgc gctgaacccg ctgctctacg ccttctgggg ctgcacttc gcagagcctc tccgcccgtg ctgccccctg gcgcgcgcgc gccccgcgcg cccccgcgcg ccgcggacct cggacccccc agccccacac gggagctgc accgcctggg gtcccacccg gccccgcca gggcgcaaa gccagggagc agtgggctgg ccgcgcgcgc gctgtgcgtc ctgggggagg acaacgcccc tctctga</p>	Homo sapiens
478	160202	Adrenomedull in Receptor (ADMR)	IG6564	<p>SLVTYVICRH KPMRTVTNFI IANLAATDVT FLICCVPTA LLYPLPGWVL GDFMCKFVNY IQQVSVQATC ATLTAMSVDR WYTVFPLRA LHRTPRIAL AVSLSIWVGS AAVSAPVLAL HRLSPGPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLLAT CACYAAMLRH LGRVAVRPAP ADSALQGQVL AERAGAVRAK VSRILVAWVL LFAACWGPQI LFLVLQALGP AGSWHPRSYA AYALKTWAHC MSYNSALNP LLYAFLGSHF RQAFRRVCP RPRRPRRRR PGPSDPAAPH AELHRLGSHP APARAQKPGS SGLAARGLCV LGEDNAPL</p>	Homo sapiens
479	160202	Adrenomedull in Receptor (ADMR)	NM_007264	<p>CGCGGCCAC GTGCTGCTG CTGCGCGCCT ACCTGACGGC GCATTGTCTAT GCACCTGGCTG A ACCTATCATG AGACCTGCT GTGCTCACA CTGTATGAA CCACATCTG CCTACACTGC CACCTGGTAC CAATGCTCT ACTTCTTA TGAATGATC TGAATGCTG TACATGCTAG ACTGCGCTAT TCACCGGATC CTGACAACT TTATCAGCCA GACTGCCGGG GCGGGCTGGC ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGG GCACATGCGC CTCCTCTTCC TTCTGTGACA CCACGGGTTA CATAATCAAT ACCACGGGTG TACGCCAGC TGCTGCCAGC AACCGGCCAC CTTGCAGCCA AGCTGAGCT TTTACAGGACA CCATTGCTC GCAAGACTT GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGCTGAGG T</p>	Homo sapiens

480	160202 Adrenomedullin NP_009195.1	MSVKPSWGP	PSEGVTAVPT	SDIGEIHNT	ELLDLENHTL	SECHVELSQS	TKRVVLFALY	P	Homo sapiens
	in Receptor (ADMR)	LAMFVVGIVE	NLLVICVNR	GSRAGLMNL	YILNMAIADL	GIVLSLPVMM	LEVTDYTWL		
		WGSFSCRFTH	YFYFVNMYSS	IFFLVCLSD	RYVTLTASP	SWQRYOHRVR	RAMCAGIWWL		
		SAIIPLEPV	HIQIVEGPEP	MCLEMAPFET	YSTWALAVALL	STTILGFLLP	FLITVFNVL		
		TACRLRQPGQ	PKSRRHCLLL	CAYVAVFVMC	WLPYHVITLL	LTLHGTHISL	HCHLVHLLYF		
		FYDVIDCFSM	LHCVINPILY	NFLSPHFRGR	LLNAVWHYLP	KDQTKAGTCA	SSSSCSTQHS		
		IIITKGDSP	AAAAPHPEPS	LSFQAHLPL	NTSPISPTQP	LTPS			
481	160204 G Protein-Coupled Receptor RTA	AX136399							Homo sapiens
		atgcgggttc	tgtctccaaa	gccatctctt	ccagcaggag	agggtctctac	tctgagctcc	A	
		tattttccaa	ggctccggc	cgcgtcggc	gctggcctgc	tgcctccggc	ggctccggc		
		ccggaggcgg	gagtcacagg	aagagccctc	cacaaaagga	ggcctcggcg	gatcaggaca		
		gctgcagggtg	ggtgtgcaga	ctggtagct	gccagcagg	gccagacgc	gccaggcctg		
		gagatggctg	gaaactgctc	ctgggaggcc	catcccgga	acaggaaacg	gatgtgccct		
		ggcctgagcg	aggcccccga	actctacgc	cggggcttcc	tgaccatcga	gcagatcgcg		
		atgctgccgc	ctccggccgt	catgaactac	atctctctgc	tctctgcct	gtgtggcctg		
		gtgggcaacg	ggctggctct	ctggtttttc	ggcttctcca	tcaagaggaa	ccccctctcc		
		atctacttcc	tgcacctggc	cagcccgat	gtgggtacc	tcttcagcaa	ggcggtgttc		
		tccatcctga	acacgggggg	cttctgggc	acgtttggcg	actacatccg	cagcgtgtgc		
		cgggtcctgg	ggctctgcat	gttctttacc	ggcgtgagcc	tctgcccgc	cgtcagcgcc		
		gagcgtcgcg	cctcgggtcat	cttcccgcgc	tggtagtgcc	gccggcgccg	caagcgccctg		
		tccggcgtgg	tgtgcgcctt	gctgtgggtc	ctgtccctcc	tggcacctg	cctgcacaa		
		tacttctcg	tgttctggg	ccgcggggcc	cccgccgcg	cctgcaggca	catggacatc		
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		ctcatcctgc	acgtggagtg	ccggccccga	cggcgccagc	gctctgcaa	gctcaaccac		
		gtcatcctgg	ccatggtctc	cgttctctg	gtgtctcca	tctacttagg	gacgactgg		
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		atctgcatca	acagcagcgc	caagcccatc	gtctacttcc	tggccgggag	ggacaaagtgc		
		cagcggctgt	gggagccgct	cagggtggct	tccagcggg	ccctgcggga	cggcgctgag		
		ctggggggag	ccgggggcag	cagcccaac	acagtcacca	tggagatgca	gtgtccccc		
		gggaacgcct	cctgagactc	cagcgcctgg	aggaggcagg	ggcaggaaagc	ggcctccaa		
		acctctggcc	ttgggacagg	aatgggcacc	tgtctctgag	tccatacagg	agaagaaaga		
		tctgttctct	ctcctcgggc	ctccttctcc	cgtggctggg	gactccagg	gtggctggga		
		gactggggcag	ccaccagcaa	acagacctgt	ggccctggcc	cggctccccc	accttctctg		
		ctcccttaga	gacctcttgt	acagaagttg	ccccagggtg	gtggggcccc	tctctggcct		
		aggctgggtg	gtaaaagaga	ggaggtcaac	accagccta	gccacctctg	cctcttgggt		

482	160204	G Protein- Coupled Receptor RTA	CAC39840.1	<p>cagccctcct tgactgtgtc ccagccagca ccaggccagc agcctcatcc ctgccattca gggtgtgtcc agagattcga tcctcttaag gcattatcag tgagcaaatg tgaaggaaat gggtgtctgga agaaagtctt ggtcacatg ccttgtagct agtctttct gcaacaacc tccttccc ccgtcgagtc atttgtgac ttgtgggg ggatttctgg ttatgtcaag gctctggaga caggaagggc ctttggccgc cttggtagt tgacctgct tttctgactc cgggacgagc cagctcctagg ctgctcccg gagcacttga ggtatccgc aggccatgag gacccactgg gcagctcctg gacagcctct tggctccag cccaccoga aagtggacac tggctccgc ctggccacct ggggactggc actgtgtgc acagtggcc aatgtggcca acggaagttt tataaagac aaaaagtata tcaataaaca ttttataact tgc MAGNCSWEAH PGNRNRMPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCGLV P Homo sapiens</p> <p>GNGLVLMFFG FSIKRNPSI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR VLGLCMFLTG VSLLPVSAE RCASVIFPAW YWRRPKRLS AVVCALLWVL SLLVTCLNHY FCVFLGRGAP GAACRHMDIF LGILLFLCC PLMWLPCIAL ILHVECRARR RQSAKLNHY ILAMVSFLV SSIYLGIDWF LFWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ Homo sapiens</p> <p>RUWEPLRVF QRALRDGAEL GEAGGSTPNT VTMEMQCPPG NAS</p>	
483	160206	G Protein- Coupled Receptor GPR32	NM_001506	<p>atgaatgggg tctcggagg gaccagaggc tgcagtgaca ggcaacctgg ggtcctgaca A cgtgatcgct cttgttccag gaagatgaac tcttccgat gcctgtctga ggaggtgggg tcctccgcc cactgactgt ggttatcctg tctgcgtcca ttgtcgtcgg agtgcgtggc aatgggctgg tgtgtggat gactgtcttc cgtatggcac gcacggctc caccgtctgc ttctccacc tggcccttgc cgatttcagt ctctcactgt ctctgcccc tgcctatgtac tatattgtct ccaggcagtg gctcctcga gagtgggctt gcaaaactca catcaccttt gtgttctca gctactttgc cagtaactgc ctcttctgt tcatctctgt ggaccgttgc atctctgtcc tctacccctg ctgggcccctg aaccaccga ctgtgcagcg ggcgagctgg ctggcccttg ggtgtggct ctggccgcc ctgtacttgc ctgcgcacct gaaattcccg acaaccagaa aatggaatgg ctgtacgcac tgcacttgg cgttcaactc tgacaatgag actgcccaga ttggattga aggggtcgtg gaggacaca ttataggac cattggccac ttcctgctgg gcttctggtg gcccttagca atcataggca cctgcgccca cctcatccgg gccaagctct tgcgggagg ctgggtccat gccaacccgc ccaaggagct gctgctgggtg ctggtgagcg ctttctttat cttctgttcc ccgtttaacg tgggtcgtgtt ggtccatctg tggcgacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggct agetttgcct tgggctgtgt caacagcagc ctcaacccct tctctacgt cttcgttggc agagatttcc aagaaaagtt ttccagctct ttgacttctg cctggcgag ggcgtttgga gagagaggat ttctgtcatc ctgtccctcg ggaacgcc cccgggaatg a MNVSSEGTG CSDRQPGVLT RDRCSRKN SSGCLSEEVG SIRPLTVVIL SASIWWGLV P Homo sapiens</p> <p>NGVLVMTVF RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF VFLSYFASNC LLVFLSVDRCL ISVLYPVWAL NHTVQRASW LAFGWLLAA ALCSAHLKFR TTRKWNCGTH CYLAFNSDNE TAQIWIEGW EGHIGTIGH FLIGFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLLV LVSAFFIWS PFNVVLLVHL WRRVMLKEIY HPRMLLILQA SFALGCVNSS LNPFLYVFG RDRQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE Homo sapiens</p> <p>cagctccct cctccacctc tgcctcccg ctcctcttct tctagtctgt gtcaggagct A gagctccctc agggctggaa tctctgtctc cctctgtgcc cagagcccca cgtgtcggc</p>	
484	160206	G Protein- Coupled Receptor GPR32	NP_001497.1	<p>gagagaggat ttctgtcatc ctgtccctcg ggaacgcc cccgggaatg a MNVSSEGTG CSDRQPGVLT RDRCSRKN SSGCLSEEVG SIRPLTVVIL SASIWWGLV P Homo sapiens</p> <p>NGVLVMTVF RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF VFLSYFASNC LLVFLSVDRCL ISVLYPVWAL NHTVQRASW LAFGWLLAA ALCSAHLKFR TTRKWNCGTH CYLAFNSDNE TAQIWIEGW EGHIGTIGH FLIGFLGPLA IIGTCAHLIR AKLLREGWVH ANRPKRLLLV LVSAFFIWS PFNVVLLVHL WRRVMLKEIY HPRMLLILQA SFALGCVNSS LNPFLYVFG RDRQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE Homo sapiens</p> <p>cagctccct cctccacctc tgcctcccg ctcctcttct tctagtctgt gtcaggagct A gagctccctc agggctggaa tctctgtctc cctctgtgcc cagagcccca cgtgtcggc</p>	
485	160210	G Protein- Coupled	NM_004778	<p>cagctccct cctccacctc tgcctcccg ctcctcttct tctagtctgt gtcaggagct A gagctccctc agggctggaa tctctgtctc cctctgtgcc cagagcccca cgtgtcggc</p>	

Receptor
GPR44
(CRTH2)

caacgccaca ctgaagccac ttgccccat cctggagcag atgagccgtc tccagagcca
cagcaaacacc agcatccgct acatcgacca cgcggccgtg ctgctgcacg ggctggcctc
gctgctgggc ctgggtggaga atggagtcac cctcttcgtg gtgggctgcc gcatgcgcca
gacgtggtc accacctggg tgcctgcacct ggcgtctgcc gacctgttg cctctgcttc
cctggccttc ttcacctact tcttgccgtg gggccactgg tgggagctgg gcaccacctt
ctgcaaaactg cactcctcca tcttcttctt caactgttc gccagcggtc tccctgctcag
cgccatcagc ctggaccgct gcctgcaggt ggtgcggcg gtgtgggcgc agaaccaccg
cacgtggcc gcggggcaca aagtctgctt ggtgctttgg gcactagcgg tgcctaacac
ggtgcccctat ttctgtgttc gggacacct ctgcggctg gacgggcgca ttatgtgcta
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ggcgccctg gccgtcagca agttcctgct ggccttcctg gtgcgctgg cgtatcatgc
ctcgagccac ggggccgtga gctgcggtt gcagcacgc ggcgcgcgc ggccagggccg
cttctgtgcg ctgggtggcag ccgtcgtggc cgccttcgct ctctgtctgg ggccttacc
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gcggggctg ccttcgtca ccagcctggc acatgctgcg caagctgcgg cgtcgtctgc gcacggtgct
ctacgtgctc acctgccccg acatgctgcg acagcagct ggtgtggcg ggaagcagcc gccgcgcgcg
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cacctcctcc accgcgcgt cggcctcccc tttagctctc tgcagccgc cggaggaacc
gcggggcccc gcggtctcc tgggtgtgct gctgggcagc tgcgcagct ccccgagac
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gtcggaaagg cacacgggtt gcgtctcccc ggagttcagt ttaccagat gatggggag
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aagcagcagg gtagggcgtg gtaagcact cgggaaacct ggggctaact aaatccaatg
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tacagcacac gtcatcttct agctaagcgg accagcctcc ctgtcgccct ggtgttctgt
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atcacttcca ctgcacccc tctcatctc ccaactggc tggacttgg gtcagagact
gctgtgtttg agctctgcag cccagggacc gaaaagtgg tgcataatgaa ttttgccttg
tggatgaaat gtcagtgga gaaagactt gagatcttg tctgtgttt

486	160210	G Protein- Coupled Receptor GPR44 (CRTH2)	NP_004769.1	MSANATLKPL CPFILEQMSRL QSHSNTSIRY IDHAAVLLHG LASLLGLVEN GVILFVVGCR P MRQTVVTTWV LHLALSLLA SASLPFFTYF LAVGHSWELG TTFCKLHSSI FFLNMFASGF LLSAISLDRCLQVRPWAQ NHRTVAAAHK VCLVWALAV LNTVPYFVER DTISRLDGR MCYNNVLLN PGDRDATCN SROAALAVSK FLIAFLVPLA IIASSHAAVS LRLQHRGRRR PGRFVRLVAA VVAEALCWG PYHVFSLLEA RAHANPGLRP LVMRGLPFVT SLAFFNSVAN PVLVLTCPD MLKLRRSLR TVLESVIVDD SELGGAGSSR RRTSSTARS ASPLALCSRP EPRGPARRLL GWLLGSCAAS PQTGPLNRAL SSTSS	atgaatgaat ccaggtggac tgaatggagg atcttgaaca tgagcagttg cattgtgaat A gggtccagc gtcactcccg cccacttggg ttgggccact acagtgtggt ggatgtctgc atcttcgaga cagtggttat tgtgtgtctg acatttctga ttattgtctg gaatctaaca gttatcttg cctttcattg tgctccactg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttgggtcc tactctgtca cttctccact actccacagg tgtccacgag tcattaaact gccgggtttt tggatatatc atctcagttc taaaaagtgt ttctatggca tgccttgcct gcatcagttg ggatcgttat cttgcataaa ccaagcctct tctctacaat caactgggtca ccccttgcg cttgagaatt tgcatatttt tgatctggat ctactcctgc ctaattttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatgggtgc ccacgtcttg gctcaccagt gcttatttta ctggctttat tgtttgctta ctttatgctc ctgtgcctt tgttgcctgc ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaaagagat aaatgaccga agagcccgat tccctagtca tgaggtagat tctccagag agactggaca cagccctgac cgctcgctacg ccatggtttt gtttaggata accagtgtat ttatatgct gtggtcccc tatataattt actttcttct agaaagctcc cggtctcttg acaatccaac tctgtccttc ttaacaacct ggcttgtagt aagtaaatagt ttttgttaact gtgtaataata cagcctctcc aacggcgttt tccggctagg cctccgaaga ctgtttgaga caatgtgcac atcctgtatg tgtgtgaagg atcaggaagc acaagaacct aaactaggga acggggctaa tcttgcctcc attga	Homo sapiens
487	160212	G Protein- Coupled Receptor GPR52	NM_005684	atgaatgaat ccaggtggac tgaatggagg atcttgaaca tgagcagttg cattgtgaat A gggtccagc gtcactcccg cccacttggg ttgggccact acagtgtggt ggatgtctgc atcttcgaga cagtggttat tgtgtgtctg acatttctga ttattgtctg gaatctaaca gttatcttg cctttcattg tgctccactg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttgggtcc tactctgtca cttctccact actccacagg tgtccacgag tcattaaact gccgggtttt tggatatatc atctcagttc taaaaagtgt ttctatggca tgccttgcct gcatcagttg ggatcgttat cttgcataaa ccaagcctct tctctacaat caactgggtca ccccttgcg cttgagaatt tgcatatttt tgatctggat ctactcctgc ctaattttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatgggtgc ccacgtcttg gctcaccagt gcttatttta ctggctttat tgtttgctta ctttatgctc ctgtgcctt tgttgcctgc ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaaagagat aaatgaccga agagcccgat tccctagtca tgaggtagat tctccagag agactggaca cagccctgac cgctcgctacg ccatggtttt gtttaggata accagtgtat ttatatgct gtggtcccc tatataattt actttcttct agaaagctcc cggtctcttg acaatccaac tctgtccttc ttaacaacct ggcttgtagt aagtaaatagt ttttgttaact gtgtaataata cagcctctcc aacggcgttt tccggctagg cctccgaaga ctgtttgaga caatgtgcac atcctgtatg tgtgtgaagg atcaggaagc acaagaacct aaactaggga acggggctaa tcttgcctcc attga	Homo sapiens	
488	160212	G Protein- Coupled Receptor GPR52	NP_005675.1	MNESRWTEWR ILMSSGIVN ASERHSCPLG FGHYSVDVC IFETWVIVLL TFLIAGNLT P VIFAFHCAPL LHXYTSYFI QTMAYADLFV GVSCIVPTLS LHXYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDRI LAITKPLSYN QLVTPCLRRI CILILIWYSC LIFLPSFFGW GKPGYHGDIF EWCATSWLTS AYTFGFIVCL LYAPAAFWC FTYFHFIC RQHTKEINDR RARFPSHEVD SSRETGHSPD RRYAMVLFRI TSVFMMLWLP YIYFLLESS RVLDNPTLSF LTTWLAVSNS FCNCVTYSL NGVFRGLRR LFTMCTSCM CVKDQEAQEP KPRKRANCS I	ttttgtccac caaaagccag tggggactgc ctgtttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtcca catcccacc ttgcctctgg gcctgtcctt caacctgtcg	Homo sapiens
489	160217	G Protein- Coupled	NM_005683	atgagtcagc aaaaacaccag tggggactgc ctgtttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtcca catcccacc ttgcctctgg gcctgtcctt caacctgtcg	Homo sapiens	

Receptor GPR55	160217	G Protein- Coupled Receptor GPR55	NP_005674.1	gcaatccatg gcttcagcac ctctcttaag aacaggtggc ccgattatgc tgccacctcc atctacatga tcaacctggc agtctttgac ctgtgtgctg tgctctccct cccattcaag atggtctctg cccaggtaca gtcccccttc ccgtccctgt gcacctgggt ggagtgcctt tacttcgtca gcatgtacgg aagcgtcttc accatctgt tcatcagcat ggaccggttc ttggccatcc gttaccctgt actggtgagc cactccggtc ccccgagaag atctttggga tctgcatgca caatctgggt cctggtgtgg accggaagca tccctatcta cagtttccat ggaaagtgg aaaaatacat gtgcttccac aacatgtctg atgatactg gagcgccaag gtctcttcc ccgtggaggt gtttggttc ctcttccca tgggcatcat gggcttctgc tgctccagga geatccacat cctgctgggc cgcagagacc acaccagga ctgggtgcag cagaaagcct gcatctacag catgcagcc agcctggctg tattctggt ctcttctctc ccagtccacc tgggttctt cctgcagttc ctggtgagaa acagctttat cgtagagtgc agagccaagc agagcatcag ctcttctctg caattgtcca tgtgtttctc caatgtcaac tgctgcctgg atgtttctg ctactacttt gtcatacaag aattccgcac gaacatcagg gcccaccggc cttcagggt ccagctggtc ctgcaggaca ccacgatctc ccggggctaa MSQNTSGDC LFDGVNELMK TLQFAVHIPT FVLGLLNL AIHGFSTFLK NRWPDYAATS P IYMINLAVFD LLLVLSLPEK MVLQVQSPF PSCLTVECL YFVSMYGSVF TICFISMDRF LAIRYPLLV HSGPPGRSLG SACTIWLVM TSIPYIFSH GKVEKYMCFH NMSDDTWSAK VFPELEVFG LLPNGIMGFC CSRSIHILLG RRDHTQDWVQ QKACIYSIAA SLAVFVVSFL PVHLGFFLQF LVRRNSFIVEC RAKQSISFFL QLSMCFSNVN CCLDVFCYYF VIKFRMNIR AHRPSRVQLV LQDTTISR	Homo sapiens
Receptor GPR55	160219	G Protein- Coupled Receptor GPR35	NM_005301	atgaatggca cctacaacac ctgtggtctc agogacctca cctggccccc agogatcaag A ctgggtcttct acgctactt gggcgtcctg ctggtgctag gctgtgctct caacagcctg gogctctggg tgttctgctg ccgcatgcag cagtggacgg agaccgcgat ctacatgacc aacctggcgg tggccgacct ctgctgctg tgacacttgc cctctgctg geactccctg cagagacact cagacacgcc gctgtgccag ctctcccaag gcatctacct gaccaacagg tacatgagca tcagcctggt cagggccatc gcgtggacc gctatgtggc cgtgcggcac ccgctgctg cccgggggt cgggtccccc aggcaggctg cggcctgtgt cgggttctc tggtgctgg tcatggctc cctggtggt cgtggctcc tggggattca ggaggcggc ttctgcttca ggagcaccgg gcacaatttc aactccatg ggttcccgct cgtgggattc tacctgcccc tggcgtggt ggtcttctg tccctgaag tggtagactg cctggccccg agcccaccca ccgactggg gcaggcagag gccacccgca agcgtgccc catggtctgg gccaaacctc tgggttctg ggtctgctt ctgccccgc acgtggggt gacagtgcgc ctcgcagtgg cctggaacgc ctgtgccctc ctggagacga tccgtgcgcg cctgtacata accagcaagc tctcagatgc caactgctg ctggacgcca tctgtacta ctacatggcc aaggagtcc aggaggcgtc tgcaactggc gtggctcccc gtgctaaggc ccacaaaagc caggactctc tgtgctgac cctgcctaa MNGVNTCS SDLTWPPAIK LGFAYLGLV LVLGLLNSL ALWVCCRMQ QWTETRIYMT P NLAVADLCLL CTFPLVHSL RDTSDTPLCQ LSQIYLTNR YMSISLVTAI AVDRYAVVRH PLRARGLRSP RQAAVCAVL WVLVIGSLVA RWLLGIQEGG FCFRSTRHNF NSMRFPLLGF YLPLAVVWFV SLKVVTAQAQ RPTDVGQAE ATRKAARMVW ANLIVFVVCF LPLHVGLTVR LAVGNACAL LETIRRALYI TSKLSDANCC LDAICYMYA KEFQEAASALA VAPRAKAHKS	Homo sapiens

493	160221	G Protein- Coupled Receptor GPR27	NM_018971	QDSLCVTLA	atggcgaaacg cgaagcgagcc gggtggcagc ggcgggcgcg agggcgccgc cctggggcctc A	Homo sapiens
					aagctggcca cgtcagcct gctgctgtgc gtgagcctag cgggcaacgt gctgttcgcg	
					ctgctgacg tgcgggagcg cagcctgcac cgcgcgccgt actacctgct gctcgacctg	
					tgcttgccg acgggctgcg cgcgctcgcc tgctcccg cgtcatgct ggcggcgcg	
					cgtgcgcgcg cgcggcgcg ggcgcgcgcg ggcgcgcg ttcgcaagct gctcgcttc	
					ctggccgcgc tctctgctt ccacgcgcgc ttcctgctgc tggcggtggg cgtcacccgc	
					tacctggcca tgcgcacca cgccttctat gtagagcgcc tggccggctg gccgtgcgc	
					gccatgctgg tgtgcgcgc ctggggcgctg ggcgtggcg cggccttccc gccagtgcg	
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					aggtgtgca gctacctg ggtcctggtg cggcccgcg ccgttcccc ggcctacctg	
					acggcctccg tgtggctgac ctgcgcgag gcggcatca acccgtcgt gtgcttccc	
					ttcaacagg agctgaggga ctgcttcagg gccagttcc cctgctgcca gggcccccg	
					accacccagg cgaccatcc ctgcgacctg aaaggcattg gtttatga	
494	160221	G Protein- Coupled Receptor GPR27	NP_061844.1	MANASEPGS	MANASEPGS GGGAAAIAGL KIATLSLLC VSLAGNVLFA LITVRSLSH RPYVLLLDL P	Homo sapiens
					CLADGIRALA CLPAVMLAAR RAAAAGAPP GALCKLLAF LAALFCFHAA FLILGVGVR	
					YLAIAHHRFY AERLAGWPCA AMLVCAAWAL ALAAAFPVL DGGDDDEDAP CALEQRPDGA	
					PGALGFLILL AVVVGATHLV YLRLLFFIHD RRMKRPARLV PAVSHDWTFF GPGATGQAAA	
					NWTAGFGRGP TPPALVGIRP AGPGRGARRL LVLEEFKTEK RLCKMFYAVT LFLILLWGPY	
					VVASYLRLV RPNAVPOAYL TASVWLTFQA AGINPVVCFI FNRRLDCFR AQFPCCQSPR	
					TTQATHPCDL KGIGL	
495	160222	G Protein- Coupled Receptor GPR72	NM_016540		atgggccctc acctctgct gctctgtctc ctcccttgg tgcgagccac cgagcccccac A	Homo sapiens
					gagggccggg ccgacgagca ggcgcggag gcggccctgg ccgtgcccac tgcctcgccac	
					ttcttctctt ggaacaacta cacttctcc gactggcaga acttctggg caggaggcg	
					tacggcgctg agtccagaa cccacgggtg aaagccctgc tcattgtggc ttactccttc	
					atcattgtct tctactctt tggcaacgtc ctggtctgtc atgtcatctt caagaaccag	
					cgaatgcact cggccaccag cctcttcac gtcaacctg cagttgccga cataatgac	
					acgtgtctca acacccctt cactttggtt cgttttgtga acagcacatg gatatgtgg	
					aagggcatgt gccatgicag ccgctttgcc cagtactgt cactgcactg ctgagcactg	
					acactgacag ccattgcgtt ggatgccac cagttcatca tgcacccctt gaaaccccg	
					atctcaatca caaagggtgt catctacatc gctgtcatc ggacctggc tacgttcttt	
					tcaactccac atgctatctg ccagaaatta tttaacctca aatacagtga ggacattgtg	
					cgtccctct gctgcccaga cttccctgag ccagctgacc tctctggaa gtacctggac	
					ttggccacct tcatctctgt ctacatcctg cctcctccta tcatctctgt ggcctacgct	

496	160222 G Protein- Coupled Receptor GPR72	NP_057624.1	<p> cgtgtggcca agaaactgtg gctgtgtaat atgattggcg atgtgaccac agagcagtagc tttgccctgc ggcgcaaaaa gaagaagacc atcaagatgt tgatgtggtg gtagtctctc tttgccctct gctggttccc cctcaactgc tacgtctctc tcctgtccag caaggtcatc cgcaccaaca atgcctctta ctttgccttc cactgtgttg ccctgagcag cactgtctat aacccttcca tatactgctg gctgaacgag aacttcagga ttgagctaaa ggcattactg agcatgtgc aaagacctcc caagcctcag gaggacgggc aaccctccc agtccttcc ttcagggtgg cctggacaga gaagaatgat ggccagaggg ctccccttgc caataacctc ctgcccacct cccaactcca gctcgggaag acagacctgt catctgtgga acccattgtg acgatgagtt agaagaggtt ggaagaggg agtgggaggg gtctgtctcc acctgaggca gggaagaga gctattctc acacatgac ttcagagtgc tggaacaca ctctgcaga aggctgtagg actcttgaat tctaggaaa ctgtccagcc tctagcccc atgtgagtg aaaactaaa ggcaccacca actagacatg tgttcataaa ttccatcta agaaacactg ggaggcacag cagcctgtat ctctgaggaa gaggagcag gacaacgttg gccagatgg gggctgaatc attcaactgc ctccatctgt ggggcagctg ctgccttaca gcccttcta ctagactgag catcccgag gagacctaaa tcatactttg ggtgtggtga cccagatgca cagagctctg cttgaaacag gtacacgggc caggaaaatg ccagcaa MVPHELLLLCL LPLVRATEPH EGRADEQSAE AALAVPNASH FFSWNNYTF S DMQNFVGRRR P YGAESQNPTV KALLIVAYSF IIVFSLEGNV LVCHVIFKNQ RMHSATSLFI VNLAVADIMI TLNTPFTLV REFVNSTWIFG KGMCHVSREA QYCSLHVSAL TLTAIAVDRH QVIMHPLKPR ISITKGVIIY AVIWTMTFF SLPHAIQCKL FTFKYSIEDV RSICLPDFPE PADLEFWKYLD LATFILLIYL PLIIISVAYA RVAKKLWLCN MIGDVTTEQY FALRRKKKT IKMLMLVVVL FALCWFPINC VYLLLSKVI RTNNALYFAF HWFAMSSTCY NPFIYCLWNE NFRIELKALL SMCQRPPKPKQ EDGQSPVPS FRVAWTEKND GQRAPLANNL LPTSQSQSGK TDLSSVEPIV TMS </p>	Homo sapiens
497	160223 G Protein- Coupled Receptor G2A	NM_013345	<p> gggaggggtg cgaggctagc cagcagggcg gggccctggg tcattttaaa ctctcagagt A gaactcttg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc cacactgaga ttggaacccg caaatatgc caggaggaa ggtgagcaag ggacacgaca ctcaccgga taacccaac aagcgagcg aggtgtggtg gaaacccgan cctgacac cgccggggga agtgggccn ccgccaccac cgtggaagaa cagcgcggan gcaccccacg agatgagacg gaactgccgt gagatccagc aatnccnact gtgggtctga cccaggatan cggaagcag ggaactgaac agcctctc atgttctga caccgtcatt ctacgagct cagtaaggc acagaggcag cagagcgtct gtcagcagag tegtgtgctga gcagaacacg ccacagcca cagccacac gccacacgtg caggattgct caagatgga gggcacagtg gaatatatat atatatttat attttggcg agaccctgga ggacacactg aatacaatgg aataccatcc cgcctttgaa aggaaggga atcctggcac acgctgcaac aggagggagc ttgaggacac tgtgtgtgagt ggagcacgtg agacacggaa ggacacacgc tgaagacacg cagagatgcc caccacgtg gggaggtgac aggggagccc agcgacacaga gacaaagtgg aatggaggcc tgggggctgg gagcaaatgc ggagcgagt cttctgggg cagagtctcc gtttgggaag atgagaaggt tctgccgacg atgtgtgctg atgtgtgctg aagaatgtga atgtgccccaa tgctactgaa aaacggttac aatggaaacg cccccaggt gaccaccact gccccgtggg cctccctggg cctctccgc agacactgca acaactgtc ctctgaagag </p>	Homo sapiens

498	160223	G Protein- Coupled Receptor G2A	NP_037477.1	<p>agcaggatag tccgtgtcgt ggtgtacagc ggggtgtgca cgtggggggt gccggccaac tgctgactg cgtggctggc gctgtgcag gtaactgagc gcaactgtgt ggcgtgtctac ctgctctgc tggcactctg cagactgtg tacacaggca cgtgccact ctgggtcacc tatatccgca accagcacg ctggacccta gctctctgtg cgtcaaggt gaccgcctac atcttcttct gaacatcta cgtcagcacc cctctctgtg gctgcatctc ctggacccg ttcgtggccg tgggttacgc gctggagagt cggggccgcg gccgcccagg gaccgccatc ctcatctccg cctgcatctt catctctgtc gggatcgttc actaccgggt gttccagagc gaagacaagg agactcgtt tgacatgctg cagatggaca gaggattgc cgggtactac tagccagggt taaccgttgg ctttgccatc cctctctcca tcatcgctt caccacccac cggattttca ggagcatcaa gcagagcatg ggttaagcg ctggccagaa ggccaagggtg aagcactcgg ccatcgcggt ggtgtgcatc ttctagtct gttcgcccc gtaccacctg gttctctcgt tcaagccgcg tgccttttcc tactacagag gagacaggaa cggcatgtgc ggcttgagg aaaggctgta cacagcctct ggtgtgttcc tgtgctgtc caggtgaac ggcgtggctg acccattat ctactgtctg gccacggacc attcccgcga agaagtgtcc agaatccata aggggtggaa agagtgttcc atgaagacag actccaccag gtcacccac agcagggaca ccgaggagct gcagtcgccc gtggcccttg cagaccacta cacttctcc aggccctgc acccaccagg gtcaccatgc cctgcaaaaga ggtgattga ggagtcctgc tgagcccat ggtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt ctgtgcatc gagccacca gccacagtgc ccatgtcccc tctggaagac aaactaccaa ttctcgttc ctgaagccac tccctccgtg accactggcc ccangcttcc ccacatggaa ggtggctgca tgccaagggt aagagcgaca cctccaggct tccgggagcc canagagcat gtggcangca gtggggcctc tctatcatca nctgcctgg ctgggtccct tggctgtggg cangtacacc cctgctggca gaagtacctg gtggctgccc tgttcgcatc agtggcgatg actttatttg cggagcattt ctgcaagcgt tgcctggatg cgtgggtgca ttgtgggccc tctgggctcc tgcctcaaaa tgtcagttag caccatgctg gaagtcacca tcatgtggc agcggccagg aaggcatagg gcancctacc acctccaang gggcangcgc cctcatctgg ggttgggt</p>	Homo sapiens
499	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NM_004767	<p>MCNMLKNGY NGNATPVTTT APWASLGLSA KTCNNVSFEE SRIVLVVYS AVCTLGV/PAN P CLTAWLALLO VLOGNVLAIV LCLALCELL YTGTLPLWVI YIRNQHRTWL GLACKVTAY IFFCNIVVSI LFLCCISCDR FVAVVVALES RGRRRRTAI LISACIFILV GIVHYPVFQT EDKETCFDML QMDSRIAGYY YARFTVGFAL PLSIIAFTNH RIFRSIKOSM GLSAAQKAKV KHSALIAVVI FLVCFAPYHL VLLVKAASF YVRGDRNAMC GLEERLYTAS VFCLCLSTVN GVADPIIYVL ATDHSRQEVLS RIHKGWKEWS MKTDVTRLTH SRTEELQSP VALADHYTFS RPVHPPGSPC PAKRLIEESC</p> <p>cgggtacagg gggcccaaga gctgggctgg ctgtctcctg ctcaccagc catcggtgg A ctgtggcccc tgggtgtctc tctgtgtgtg atttggctg tggggctaag cagggtctct gggggtgccc cctgtcacct gggcaggcac agagccgaga cccaggagca gcagagccga tccaagaggg gccccgagga tgaggaggcc aaggcgctgc agcagtatgt gcctgaggag tgggcggagt acccccgcc cattcacct gctggcctgc agccaaccaa gcccttgggtg gccaccagcc ctaacccccg caaggatggg ggcacccccc agagtgggca ggaactgagg ggcaatctga caggggcacc agggcagagg ctacagatcc agaaccctt gtatcccggtg</p>	Homo sapiens

500	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NP_004758.1	<p>accgagagct cctacagtc ctagccatc atgcttctg cgctggtggt gtttgcggtg ggcattgtg gcaacctgtc ggtcatgtgc atcgtgtggc acagctacta cctgaagagc gcttggaact ccatccttg cagcctggc cctctggatt tctgtgtcct ctttttctgc ctccctattg tcatcttcaa cgagatcacc aagcagagtc tactgggtga cgtttctgtg cgtgccgtgc ccttcatgga ggtctcctct ctgggagtcga cgactttcag cctctgtgcc ctgggcatg accgcttcca cgtggccacc agcacctgc ccaagtgtag gcccatcgag cggtgccaat ccatcctggc caagtggct gtcactggg tgggtccat gacgtggct gtgctgagc tctgtgtg gcagctggca caggagcctg cccccaccat gggcacctg gactcatgca tcatgaaacc ctcagccagc ctgcccaggt cctgtattc actggtgatg acctaccaga acgcccgcct gtggtgtgtac ttggtgtgt acttctgctt gcccatcctc ttcacagtca cctgccagct ggtgacatgg cgggtgcgag gccctccagg gaggaagtca gagtgcagg ccagcaagca cgagcagtg gagagccag tcaacagcac cgtggtggcc ctgaccgtgg tctacgcctt ctgcacctc ccagagaaag tctgcaacat cgtggtggcc tacctctcca cagagctgac cggccagacc ctggacctcc tgggctcat caaccagttc tccaccttct tcaagggcgc catcacccca gtgctgtctc ttgtcatctg caggccgctg ggccaggcct tcttgagctg ctgctgtgc tctgtgtg aggagtgcg cggggcttctg gaggcctctg ctgccaatgg gtgggacaac agctcaaga ccgaggtgtc ctctccatc tacttccaca agcccaggga gtcaccccca ctcctgcccc tgggacacac ttgctgagcc ccagtaggg gtggggaggg agggagagcc cgcacccccc gccggtgtct gctgttctt ccccataggt cttgtcttgt tgcctgtctt gctgtctagg gatggacttg gttcctcttg tcaaggtttg ggaatccc</p>	Homo sapiens
501	160225	Sphingolipid Receptor Edg6	NM_003775	<p>gagtcagccc ccggggggagg ccatgaacgc cagggggacc ccggtggccc ccgagtcctg A ccaacagctg gcggccggcg ggcacagccg gctcattgtt ctgcactaca accactcggg ccggctggcc ggccgaggga ggccggagga tggcgccctg ggggccctgc ggggctgtc ggtggccgcc agctgcctgg tggctctgga gaacttgctg gtgctggcg ccatcacca ccacatgcgg tcgcgacgt ggtctacta ttgcttggtg aacatcacgc tgagtaccc gctcacgggc gcggcctacc tggccaacgt gctgctgtcg ggggcccgca ccttccgtct ggcgcccgcc cagtgttcc tacgggaggg cctgctcttc accgccctgg ccgctccac cttcagcctg cttctcactg caggggagcg cttgtccacc atggtgcggc cgggtggccga gagcggggcc accaagacca gcggcgtcta cggcttctta ggcctctgct ggtgctggc cgcgtgctg gggatgctg cttgtgtggg ctggaactgc ctgtgcgctt ttgaccgctg ctccagcctt ctgcccctct actccaagcg ctacatcctc ttctgcctcg tgatcttcg</p>	Homo sapiens

502	160225	Sphingolipid Receptor Edg6	NP_003766.1	<p> cggcgctctg gccaccatca tgggcctcta tggggcccatc ttccgcctcg tgcaggccag cgggcagaag gccccacgcc cagcgcccg cgcgaagcc cgcgcctgc tgaagacggt gctgatgac ctgctggcct tectggtgtg ctggggccca ctcttcgggc tgcgtctggc cgacgtcttt ggtcccaacc tctgggcccc gagtacctg cggggcatgg actggatcct ggccctggcc gtcctcaact cggcggtcaa cccatcatc tactcctcc gcagcaggga ggtgtgcaga gcgtgtctca gcttcctctg ctgcgggtgt ctcgggctgg gcattgcgag gcccggggac tgcctggccc ggccgctcga ggctcactcc ggagcttcca ccaccgacag ctctctgagg ccaagggaca gcttccgctg ctcgcgctcg ctacgcttcc ggatgcggga gcccctgtcc agcatctcca gctgctggag catctgaagt tgcagtcttg cgtgtggatg gtgcagccac cgggtgcgtg ccaggcaggg cctcctgggg tacaggaaag tgtgtgcacg cagctcgcc tgtatggga gcagggaacg ggacaggccc ccatggtctt cccggtggcc tctcggggt tctgacgcca aatgggcttc ccatggtcac cctggacaag gaggtaaaca ccccacctcc cgtaggagc agagagcacc ctggtgtggg ggcgagtggg tcccacaac ccgcttctg tctgattctg gggaagtcct ggccctctc tgggcctcag tagggctccc aggctgcaag ggtggactg tgggatgcat gccctggcaa cattgaagt cgtatcgtgt aaaaa </p>	Homo sapiens
503	160228	T-Cell Death- Associated Gene 8 (GPR65)	NM_003608	<p> atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tccatttgtt tacctcttg tgattatagt cagcattcca gcaatattg gatctctgtg tgtgtcttc ctgcaaccca agaaggaaag tgaactagga attacctct teagtttgtc actatcagat tacctctatg catcaactct cctttatgg attgattata ctggaataa agacaactgg actttctctc ctgcttctg caaaggagat gcttttctca tgtacatgaa gttttacagc agcacagcat tctcactctg cattgccgtt gatcggtatt tggctgttgt ctacccttg aagttttttt tcttaaggac aagaagaatt gcaactatgg tccgctgtc catctggata ttggaaacca tcttcaatgc tgtcatgttg tgggaagatg aaacagttgt tgaatattgc gatgcgaaa agtctaattt tactttatgc tatgacaaat accctttaga gaaatggcaa atcaacctca actgtttcag gactgtaca ggcattgcaa tacttttgt caccatcctg atctgtaacc ggaagctga ccaagctgtg cgcacaata taacctcggg aacaaggaa aagaagagaa tcataaaact actgtcagc atcacagta ctttgtctt atgctttact cccttctatg tgaattgtct gatctgtc atttagagc atgtgtgaa ctgcgaagac cacagcaatt ctgggaagcg aactacaca atgtatagaa tcacggttgc attaacaagt ttaaattgtg ttgctgatcc aattctgtac tgttttgtta ccgaacacag aagatatgat atgtggaata tattaataat ctgcactggg aggtgtgata catcacaag acaagaaaa cgcatacttt ctgtgtctac aaagatact atggaattag aggtccttga gtag </p>	Homo sapiens

504	160228	T-Cell Death- Associated Gene 8 (GPR65)	NP_003599.1	MNSTCIEEQH DLPHLFPV YTFVLIIVSIP ANIGSLCVSF LQPKKESELG IYLFSLSLSD P LLYALTPLW IDTWKNDW TSPALCKGS AFMYMKFYS STAFLTCAV DRYLAVVYPL KFFFLRTRI ALMVSLSIWI LETIFNAVML WEDETVEYC DAEKSNFTLC YDKYPLEKWQ INLNFERTCT GYAIPLVITL ICNRKVQAV RHNKATENKE KHRRIKLLVS ITVTFVLCFT PFHVMLLIRC ILEHAVNFED HNSGKRTYT MYRITVALTS LNCVADPILY CFTTETGRYD MWNILKFTG RCNLSQRQK RILSVSTKDT MELEVLE	Homo sapiens
505	160300	Encephalopsi n	NM_014322	cgagcccccgc cgaagctga cgcctccgc cgcagggcg cgcggcgccg gggccatgta A ctcggggaac cgcagcgcg gccagggcta ctgggagcgc ggcggggccg cgggcgctga ggggccggcg cggcgggga cactgagccc cgcgcccctc ttcagccccg gcacctacga gcgccctggcg ctgctgctgg gctccattgg gctgctggcg gtcggcaaca acctgctggg gctgctcctc tactacaagt tccagcggt cgcactccc acctacctc tctgggtcaa catcagcctc agcagcctgc tgggtgcccct ctgctggggt acctttacct tegtgtcctg cctgaggaac ggtggggtgt gggacacccgt ggctgctgctg tgggacgggt ttagcggcag cctcttcggg attgtttcca ttgccaccct aacctgctg gcctatgaac gttacattcg cgtggtccat gccagagtga tcaatttttc ctgggctgag agggccatta cctacattcg gctctactca ctggcggtgg caggagcacc tctcctggga tggaaacaggt acatcctgga cgtacacgga ctaggctgca ctgtggactg gaaatccaa gatgccaacg attcctcctt tgtgcttttc ttatttcttg gctgctggt ggtgcccctg ggtgctcatg cccattgcta tggccatatt ctatatcca ttggaatgct tegtgtgtg gaagatcttc agacaattta agtgtcaag attttaaaat atgaaaagaa actggccaaa atgtgctttt taatgatatt caccttctctg gtctgttga tgccttatat cgtgatctgc tcttgggtg ttaattggtca tggtaacctg gtaactccaa caatatctat tgttttgtac ctcttggta aatcgaacac tgtatacaat ccagtgtatt atgtcttcat gatcagaaaag ttcgaagat cctttttgca gcttctgtgc ctccgactgc tgaggtgcca gaggcctgct aagacacctc cagcagctgg aagtgaatg cagatcagac ccattgtgat gtcaagaaa gatggggaca ggcgaagaa aaaagtgact ttaactctt ctctcatcat tttatcatc accagtgatg aatcactgtc agttgacgac agcgacaaa ccattggggt ccaaagtgt atgttaatcc aagttcgtcc ttttaggaa tgaagtagg caacgaagg tggggcctta aatggatgc cacttttggg ctttcatcat cctcctgaag aagaagtgtc tggaaatccc gttctatgta atacaacag aaccttgtgg tccagcagga aatccgaatt gcccatatgc tcttgggctt caggaagagg ttgaacaaa acaaatctt ttaattcaac ggtgtgctta cataatgaaa aaacctgtg tgcaacgat gggcatctaa catcatcatc tctaatgtg ttggagattt tcaattcaaa tatattttt aaattactct attttccaaa acagtaatg cattttctc gaaataacct tactgtaaaa ataactgtcg cgtacacatg tgtgaagtat tagaacata ctgaattttt ttgtactgt tggactctat tcaagtgtcat gtcttatatc tgatcaagtt atcaaggaga taattctaga atgaaaaaga aaatcctctt gttggaaca aaagacgttt tatatgtgca gtatgacaaa gaggagtttc agagacaact ttgaatcctt gtcagcctgg agaccagcac cagaggaaac tacaaggcaa actccatat atttgcctcc cccaaattgc tgccttaca gactcaaaagc tcttttctt ttctttgttg ttctctaaa aattactgt tcttgtcga tgctataaa gccaggaggt tctaagacgc cagctcttg atgttgcctc attccccgtg atttccaca tatatatatc atataccgc taataaattt atgttgttt taaaaaaa	Homo sapiens

Accession	Gene	NP	NP_055137.1	Protein	Protein	Species
506	160300 Encephalopsin	NP_055137.1	160300 Encephalopsin	Encephalopsin	Encephalopsin	Homo sapiens
507	160312 Sphingolipid Receptor Edg5	NP_004230	160312 Sphingolipid Receptor Edg5	Sphingolipid Receptor Edg5	Sphingolipid Receptor Edg5	Homo sapiens
508	160312 Sphingolipid Receptor Edg5	NP_004221.1	160312 Sphingolipid Receptor Edg5	Sphingolipid Receptor Edg5	Sphingolipid Receptor Edg5	Homo sapiens
509	160314 G Protein-Coupled Receptor GPR103	AF411117	160314 G Protein-Coupled Receptor GPR103	G Protein-Coupled Receptor GPR103	G Protein-Coupled Receptor GPR103	Homo sapiens

510	160314	G Protein-Coupled Receptor GPR103	ENSMPT2217 53	atccccgtca ccattgtcca gaacatttcc gacaactggc tgggggggtgc tttcatttgc aagatgggtgc catttgtcca gttaccgct gttgtgacag aaatcctcac tatgacctgc attgctgtgg aaaggcacca gggacttgtg catccttita aatgaagtgc gcaatacacc aaccgaaggc ctttcacaat gtaggtgtg gttcgggtgc tggcagtcac ctaggataca cccatgtgc acgtgcaaca acttgagac aaatatga tctatatga aaaggaaacac atctgtgct tagaagagt gaccagccct gtgcaccaga agatctacac cacccttcac ctgtcatcct cttcctcctg cctcttatgg aagaagaaac gagctgtcat tatgatgggt acagtgggtg cttcttttgc tgtgtgctgg gcaccattcc atgtgtcca tatgatgat gaatacagta attttgaaaa ggaatatgat gatgtcacaa tcaagatgat ttttgcctac gtgcaaatga ttggatttcc caactccatc tgaataccca ttgtctatgc atttatgaat gaaaacttca aaaaaaatgt tttgtctgca gttgttatt gcatagtaaa taaaaccttc tctccagcac aaaggcatgg aaattcagga attacaatga tgcggaagaa agcaaaagttt tccctcagag agaattccagt ggaggaaaacc aaaggagaag cattcagtga tggcaacatt gaagtcaaat tgtgtgaaca gacagaggag aagaaaaagc tcaaacgaca tcttgctctc tttaggtctg aactggctga gaattctcct tttagacagt ggcattaa MKIKYDFLYE KEHICCLEEW TSPVHQIYIY TFILVILFLL PLMVMLILYS KIGYELWIKK P RVGDGSLRT IHGKEMSKIA RKKRAVIMM VTWALFVAV WAPFHVHMM IEYSNFEKEY DDVTIKMIFA IVQIIGFSNS ICNPIVYAFM NENFKKNVLS AVCYCIVNKT FSPAQRHGNS GITMRRKKAK FSLRNPVEE TKGEAFSDGN IEVKICEQTE EKKKLKRHLA LFRSELAENS PLDSG	Homo sapiens
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517	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NM_005682	Homo sapiens
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357/448

518	160330	G Protein- Coupled- Receptor TM7XN1/GPR56	NP_005673.1	MT PQSLLQTT LFLLSLLFLV QGAHGRGHRE DFRFC SQRNQ THRSSLHYKP TPDLRISIEN P SEEALT VHAP FPAAH PASRS FPDPRGLYHF CLYWNRRHAGR LHLLYGK RDE LLSDKASSLL CFQHQEESLA QGPPLIATSV TSWSPQNIS LPSAASFTFS FHSPPHATAH NASVDMCELK RDLQLLSQFL KHPQKASRRP SAAPASQQLQ SLESKLT SVR FMGDMVSFEE DRINATVWKL QPTAGLQDLH IHSRQEEEQS EIMEYSVLLP RTLFQRTKGR SGEAEKRLLL VDFSSQALFQ DNSSQVLGE KVLGIWQNT KVANLTPV V LTFQHQLOPK NVTLCVFW EDPTLSSPGH WSSAGCETVR RETQTSFCFN HLTFFAVLMV SSVEDDAVHK HYLSSL SYVG CWSALACL V TIAAYLC SRV PLPCRKRPRD YTIKVHMLL LAVFLLDTSF LLSEPVALTG SEAGCRASAI FLHFSLLTCL SWMGLEGYNL YRLVVEVEGT YVPGYLLKLS AMGWGFPIFL VTLVALVDVD NYGPIILAVH RTPEGVIYPS MCWIRDSLVS YITNLGLFSL VFLENMAMLA TMVVIILRLR PHTQKWSHVL TLLGLSLVLG LPWALIFFSF ASGTFQLVVL YLFSIITSFQ GLFIFIWYS MR LQARGGPS PLKNSDCAR LPISSGSTSS SRI	Homo sapiens
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Pass G-Type
Receptor 2
(CELSR2)

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Homo sapiens

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727	134	5-HT2C Receptor	P28335	1119	RHTNEPVIEKASDNEP	Homo sapiens
728	134	5-HT2C Receptor	NP_000859.1	1826	RNAVHSLVHLGLVWQCD	Homo sapiens
729	134	5-HT2C Receptor	NP_000859.1	1829	CDISVSPVAIVTDFNTSD	Homo sapiens
730	134	5-HT2C Receptor	NP_000859.1	1830	DGGRFKFPDGVQNWPLALS	Homo sapiens
731	136	5-HT4 Receptor	CAA73107.1	654	NNIGIDLEKRFNQ	Homo sapiens
732	136	5-HT4 Receptor	CAA73107.1	655	ESRPGSADQGHSTHRMR	Homo sapiens
733	136	5-HT4 Receptor	CAA73107.1	656	CDDERYRRPSILGQTVP	Homo sapiens
734	136	5-HT4 Receptor	CAA73107.1	657	RDAVECGGQWESQCHPPATS	Homo sapiens
735	136	5-HT4 Receptor	CAA73107.1	2682	VTAKEHAHQIQLQIRAGASSESRP	Homo sapiens
736	136	5-HT4 Receptor	CAA73107.1	2683	KSFRRAFLIILCCDDE	Homo sapiens
737	136	5-HT4 Receptor	CAA73107.1	2684	VTAKEHAHQIQLQIRAGA	Homo sapiens
738	136	5-HT4 Receptor	CAA73107.1	2685	KEHAHQIQLQIRAGA	Homo sapiens
739	136	5-HT4 Receptor	CAA73107.1	2686	VTAKEHAHQIQLQIR	Homo sapiens
740	138	5-HT6 Receptor	P50406	649	RTPRPGVESADSRRLATK	Homo sapiens
741	138	5-HT6 Receptor	P50406	650	CPREKQASLASPSLRIS	Homo sapiens
742	138	5-HT6 Receptor	P50406	652	PLFMRDFKRALGRFLPC	Homo sapiens
743	138	5-HT6 Receptor	P50406	653	RAAAAVNFFNIDPAEPE	Homo sapiens
744	139	5-HT7 Receptor	P34969	658	EVTASPTWDAPPDNASGC	Homo sapiens
745	139	5-HT7 Receptor	P34969	659	KAARKSAKHKFGFPRVE	Homo sapiens
746	139	5-HT7 Receptor	P34969	660	CANLSRLKHHERKNISIFKR	Homo sapiens
747	139	5-HT7 Receptor	P34969	663	KLAERPERPEFVLKAC	Homo sapiens
748	272	Adenosine A1 Receptor	AA17544.1	8	CHKPSILTYIAFLT	Homo sapiens
749	272	Adenosine A1 Receptor	AA17544.1	9	NGSMGEPVKCEFEKVISME	Homo sapiens
750	272	Adenosine A1 Receptor	AA17544.1	10	NKKVSASSGDPQKYWGKELK	Homo sapiens
751	272	Adenosine A1 Receptor	AA17544.1	11	NDHFRCPAPPIDEDLPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQKPPIDEDLPEEKAED	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPPIDEDLPEEKAED	Rattus norvegicus
754	272	Adenosine A1 Receptor	AA17544.1	303	MPPSISAFQAAYIGIEVU	Homo sapiens
755	273	Adenosine A2a Receptor	P29274	1237	QGNLTGLPDVELLSHELKGVG	Homo sapiens
756	273	Adenosine A2a Receptor	P29274	1238	MPIMGSSVYITVELAIA	Homo sapiens
757	273	Adenosine A2a Receptor	P29274	1239	RSHVLRQGEFFKAAAGT	Homo sapiens
758	273	Adenosine A2a Receptor	P11617	1240	RIRFRQIFRKLIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNNCTEPWDGTINES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRQLQRTELMDSRITLQRE	Homo sapiens
761	274	Adenosine A2b Receptor	P29275	678	RNRDRFYTFHKISRYLLC	Homo sapiens
762	274	Adenosine A2b Receptor	P29275	679	CQADVKSGNGQAGVQP	Homo sapiens

763	274	Adenosine A2b Receptor	P29275	680	CVTLFQPAQGNKPKW	Homo sapiens
764	274	Adenosine A2b Receptor	P29275	2714	MILETQDALYVALELVIAAL	Homo sapiens
765	275	Adenosine A3 Receptor	P33765	683	IFYIRNKLSNLNSKE	Homo sapiens
766	275	Adenosine A3 Receptor	P33765	686	NMKLTSEYHNRNVTLSC	Homo sapiens
767	275	Adenosine A3 Receptor	P33765	687	AYKKKFKETYLLKAC	Homo sapiens
768	275	Adenosine A3 Receptor	P33765	689	TGAFYGREFTAKSLF	Homo sapiens
769	275	Adenosine A3 Receptor	P33765	2296	KRVTHRRRIWLALGLC	Homo sapiens
770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLPLEEIFFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGSFETTADDIDS	Homo sapiens
772	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	6	RYHSIVTMRRTVAVLT	Homo sapiens
773	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	7	AFRSPELRDAFKKMIFC	Homo sapiens
774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTRSLEAGVKRERGKASE	Homo sapiens
775	376	Alpha 1d-adrenoceptor	AAA35496.1	13	KEPVPPDERFCGITEEAG	Homo sapiens
776	376	Alpha 1d-adrenoceptor	AAA35496.1	14	RSTEMVQRLRMEAVQ	Homo sapiens
777	376	Alpha 1d-adrenoceptor	AAA35496.1	15	PRPSCAPKSPACRTTSP	Homo sapiens
778	377	Alpha 1b-adrenoceptor	P35368	696	KEMSNKELTIRHSK	Homo sapiens
779	377	Alpha 1b-adrenoceptor	P35368	697	GGSLERSQSRKDSLDDSGSC	Homo sapiens
780	377	Alpha 1b-adrenoceptor	P35368	698	APEPPGRRGRHDSGPL	Homo sapiens
781	377	Alpha 1b-adrenoceptor	P35368	699	KLLTEPESPGTDGGASNGGC	Homo sapiens
782	379	Alpha 1c-adrenoceptor	AAA93114.1	1245	GSGMASAKTKHFSVR	Homo sapiens
783	379	Alpha 1c-adrenoceptor	AAA93114.1	1246	RIPVGSRETFYRISKTDGVC	Homo sapiens
784	379	Alpha 1c-adrenoceptor	AAA93114.1	1247	SSMPRGSAKITVSKQSSC	Homo sapiens
785	379	Alpha 1c-adrenoceptor	AAA93114.1	1248	ESRGLKSGLKTDKSDS	Homo sapiens
786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPNGLGPERSAAGP	Homo sapiens
787	387	Alpha 2a-adrenoceptor	P08913	1344	PGEPAPAGPRDIDALD	Homo sapiens
788	387	Alpha 2a-adrenoceptor	P08913	1345	RGPRGKGKARASQVWPGD	Homo sapiens
789	387	Alpha 2a-adrenoceptor	P08913	1346	RGPATGIGTPAAGPGE	Homo sapiens
790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGAAKASRWGRQNI	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	YKGDQGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGPGQGGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSGSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGGQWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDGASPTTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPRPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGPGGRLSRASS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMAASGRQRRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NVHILASLRITREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTTAULT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRITKWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AAB02793.1	794	FRITMKEYSDEGHNVAC	Homo sapiens
804	600	Bradykinin B2 Receptor	AAB02793.1	795	CTIMQIMQVLRNINEMQKFKE	Homo sapiens
805	600	Bradykinin B2 Receptor	AAB02793.1	796	CQDERIDVITQIASFM	Homo sapiens
806	600	Bradykinin B2 Receptor	AAB02793.1	797	CRSEPIQMENSMTLRTS	Homo sapiens
807	635	Beta-1 adrenoceptor	AAA51667.1	1357	RVFREAGKQVKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AAA51667.1	1358	CERRFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AAA51667.1	1359	ANGRAGKRPSRLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AAA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AAA51667.1	1361	CLARPGPPSPGAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AAA51667.1	1362	CNGGAAADSDSSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRGLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEQEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNIRSHAPDHDVTQQR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVMVFVYSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRPPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SRLAPAPVGTCAppe	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRRPARLLPRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAAARSSPAQRRLC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWYTVGTYRSESYT	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGLDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMIDESDT	Homo sapiens
825	692	Bombesin Receptor	AAA35604.1	20	SITNDTESSSVVNDNTNIK	Homo sapiens
826	692	Subtype-3 Bombesin Receptor Subtype-3	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens

827	692	Bombesin Receptor Subtype-3	AA335604.1	22	RDPNKNMIFESCTSPVSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AA335604.1	23	RTLKSTLNIPTTEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AA335604.1	24	KSFQKHFKAQQLFCKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSGDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	QRQPHSPNQTLISITNDTE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLTLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAE DR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNYNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SQGHNNNSLPRCTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CYGVVHRLRQAQR RP	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLFSPWRSSLSSENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTFEDYGDATPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWETHTC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHFPHESLREWKL FQA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TILSVFQDFLTHEC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVYSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYQSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRYIPFLPSEKLE RTS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGLLCEKADTRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MNATEVTDITQDET VNSWY	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESYSNWYLYESIPKC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSSYTGSTM DHDLDH	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETILVEVLQDCTFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHTYCKTKYSLNSTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVTDDYIGDNTTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQRSSSEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHRRSSMSVE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFLKFLD LGC	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDIFSSPCDAELIQING	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHLKRCQNIHNKTKAIR	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SOIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHLSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSYDYGENESDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRURA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVLNDAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNQRGLQRQPSSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMGSGDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRSMITDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHGQKRKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGGHSSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLNIVQPPGEMNDRLD	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETSPILDNSD	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARGSIQIGILEAAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPSADSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DLNTPVDKTSNITLRVPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAVAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYTHLLRTWSRRATRSTK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRLRKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AEELESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLIPWRPEGKIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNWNQYKIQFGNSFSNSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASYTVSTISDGPYSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMAKLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENEENIQCGENFMDIE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVQVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAQPLDINSMGDS	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADTTR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSSEKENEENIQ	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMLSGPQK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMRLDVRLAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETADGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHHCIAHWKCK	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMPGRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEPVSGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSSFSEITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMPGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASLNLSKQKAELE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNTKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTKFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFFDKVQDLGRDSKTSS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHSWEGHIRTRKPNTK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLNGQVREYKRWITGKTP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLNGQVREYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSGQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGELSEHQ	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSUEVFNLHERVYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHRHRLRPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLYIEQKTNLPALNRF	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSSTSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVGEE	Homo sapiens
913	1103	Coricotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQRKYDLHYRIAL	Homo sapiens
914	1103	Coricotropin releasing	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	factor Receptor 2	1103	Q13324	505	DPEGPVSYCNITLIDQIGTCW	Homo sapiens
916	Carticotropin releasing factor Receptor 2	1103	UR43	507	ALLEQYCHTITMLTNLSG	Homo sapiens
917	factor Receptor 2	1240	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	Dopamine Receptor D1	1240	CAA41734.1	42	KAKPTSPSDGNATSLAETID	Homo sapiens
919	Dopamine Receptor D1	1240	CAA41734.1	43	CSQPESSEFKMSFKRE	Homo sapiens
920	Dopamine Receptor D1	1240	CAA41734.1	44	EDLKKEEAAGIARPLEK	Homo sapiens
921	Dopamine Receptor D5	1241	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	Dopamine Receptor D5	1241	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	Dopamine Receptor D5	1241	P21918	1409	PNAVTPGNREVDNDEE	Homo sapiens
924	Dopamine Receptor D5	1241	P21918	1410	QITSPDGDPAESVWELDC	Homo sapiens
925	Dopamine Receptor D2	1242	P14416	1403	KRSSRAFRALHRLAPLKGNC	Homo sapiens
926	Dopamine Receptor D2	1242	P14416	1404	CTVIMKSNCSFPVNRIRRV	Homo sapiens
927	Dopamine Receptor D2	1242	P14416	1405	KPEKNGHAKDHPKIAK	Homo sapiens
928	Dopamine Receptor D2	1242	P14416	1406	GKIRTSLSKMSRRKLSQQKE	Homo sapiens
929	Dopamine Receptor D3	1243	P35462	1398	KQRRRKRLTRQNSQC	Homo sapiens
930	Dopamine Receptor D3	1243	P35462	1399	CNSVRPGFPQQTLSPDP	Homo sapiens
931	Dopamine Receptor D3	1243	P35462	1400	CQDTALGGPGFQERGGGE	Homo sapiens
932	Dopamine Receptor D3	1243	P35462	1401	KREEKTRNSLSPTIAP	Homo sapiens
933	Dopamine Receptor D3	1243	P35462	1402	STSLKLGPLQPRGVPLRE	Homo sapiens
934	Dopamine Receptor D4	1244	P21917	1394	VAVAVPLRYNRQGGSR	Homo sapiens
935	Dopamine Receptor D4	1244	P21917	1395	EVARRAKLHGRAPRRP	Homo sapiens
936	Dopamine Receptor D4	1244	P21917	1396	PPSPTPPAPRLPQDPC	Homo sapiens
937	Dopamine Receptor D4	1244	P21917	1397	PPQTPPQTRRRRRRAKITGRE	Homo sapiens
938	Opioid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	222	DAYPSAFPSAGANASGP	Homo sapiens
939	Opioid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	224	LVDIDRRDPLWVAALHLC	Homo sapiens
940	Opioid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	Opioid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	226	SRPREATARERVTAC	Homo sapiens
942	Duffy Antigen	1424	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	Duffy Antigen	1424	AAC50055.1	1412	NDSFPDGDYDANLEAAAPC	Homo sapiens
944	Duffy Antigen	1424	AAC50055.1	1413	CHASLGHRLGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKALGMGPGP	Homo sapiens
946	1451	EBV-induced Gene 2	AA35924.1	45	KQEAERITCMEYPNFEET	Homo sapiens
947	1451	EBV-induced Gene 2	AA35924.1	46	KLRTAKQNPLEKSGVNKK	Homo sapiens
948	1451	EBV-induced Gene 2	AA35924.1	47	KSAPENSREMITETQM	Homo sapiens
949	1451	EBV-induced Gene 2	AA35924.1	48	CKGYKRKVMRMILKRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRATPLLQTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	PSLAPAEVPGKDRTAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PRTSPPPCQGPIEKE	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EEKQSLEEKQSCCLKFKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSTNLSNHVDDFTIFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDQNNHNIDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPGIEKFREEAEERD/C	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGPLPVDITFLR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFSNSSTAFLRPLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAAHAFKVAARATLRRSN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNSTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALVSSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLKVAITMLTA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTNDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SYESAGYTVLRILPLVWL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFLTVTPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKVAITMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTNDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	58	QESKVTEIPSDLPRNAIELR	Homo sapiens
972	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	59	DVLEVEADVFSNLPK	Homo sapiens
973	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	60	RNGHCSSAPRVTSGSTY	Homo sapiens
974	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	61	RGQRSSLAEDNESSYRGFD	Homo sapiens
975	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2231	CHHRICHCSNRVFLCQE	Homo sapiens
976	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2232	LRVIQKGAFSGFGDLEK	Homo saplens
977	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2233	LYVMSLLVLNLAFVVIC	Homo sapiens
978	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2234	CNKSLRQEVDMITQARGQR	Homo saplens
979	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2236	SDNNNLEELPNDVFHGA	Homo sapiens
980	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2238	KLVALMEASLTYPShc	Homo sapiens
981	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2241	SFESVILWLNKNGIGQEIHC	Homo sapiens
982	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2248	IHSLQKVLDDIQDNIHHT	Homo sapiens
983	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2250	KANNLLYTPEAFQNLP	Homo sapiens
984	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2251	CYEMQAGIVRTIETSSTVH	Homo saplens
985	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1437	TNTPSRKKMVRVVVC	Homo sapiens
986	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1439	ARAIASSDQEKHSSRK	Homo sapiens
987	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1440	KYSAKTGLTKLIDASRVSET	Homo sapiens
988	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1893	PDTYTLKTVTSASNNEYC	Homo sapiens
989	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	192	GNSLVTVLARSKPGKPR	Homo sapiens
990	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	193	PRASNQITFCWEQWDPDRHKK	Homo sapiens

991	1762	Galanin Receptor Gair1	AAA50767.1	194	KKLKNMISKSEASKKTAQ	Homo sapiens
992	1762	Galanin Receptor Gair1	AAA50767.1	195	GNSLVTVLARSKP	Homo sapiens
993	1762	Galanin Receptor Gair1	AAA50767.1	196	RKDSHLSDTKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYRREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFDQRLIER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLRSLGEEQRQLPERARR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPNEA	Homo sapiens
998	1813	Gastrin-Releasing Peptide Receptor	P30550	829	CNISSHSADLPVNDWWSHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPRIRGAGTRELALAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGPLGAVHQNGRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGSDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKDSGDCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLLRTRYSQKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGGQWVRGPRGQPWRDAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGEEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSPGHGPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTQKKEGKKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKNSKVGGQ	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMIHLADSSGGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQLNGSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTGSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDAKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFSGSSYPGVQS	Homo sapiens

1017	1945	Opn, green-sensitive	NP_000504.1	1750	CILQLFGKKVDDGSELSS	Homo sapiens
1018	1945	Opn, green-sensitive	NP_000504.1	1767	STRGPFEGPNYHIAPR	Homo sapiens
1019	1945	Opn, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKKLR	Homo sapiens
1020	1945	Opn, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSVSP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDSLGD	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGTDPWDINEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRRGDAVVGASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SGRKLSLTKDESSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACLQAAEEMPNTILG	Homo sapiens
1026	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	834	CPDFFSHFSSESGAVKRD	Homo sapiens
1027	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	835	VRKLEPAQGSJHTQSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	836	RTEISRKWHGHDPPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GWNHFMQQTSVRREDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKLR	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSFSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPVFSQEDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRQVYVSGLHMNRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYYRIFKVARDDQAKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHISWKA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVYRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLSNASQLSRTGSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1	AAA63906.1	230	CFPLKMRMERQTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Choriogonadotropin Receptor	Q14751	1432	CNTGIRKFPDVTIKVFSSES	Homo sapiens
1045	2964	Luteinizing Hormone/Choriogonadotropin Receptor	Q14751	1433	KMHNGAFRGATGPKTLD	Homo sapiens
1046	2964	Luteinizing Hormone/Choriogonadotropin Receptor	Q14751	1434	CESTVRKVSNIKLYSS	Homo sapiens
1047	2964	Luteinizing Hormone/Choriogonadotropin Receptor	Q14751	1435	FAVRNPELMATNKDTK	Homo sapiens
1048	2964	Luteinizing Hormone/Choriogonadotropin Receptor	Q14751	1436	CKRRRAELYYRRKDFSAVTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLHTRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMRMSRHSSGPRRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTESDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MIRG	AAB21255.1	184	ESQISLSCSLCHSGDQEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MIRG	AAB21255.1	185	QQGQKATRWAWQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MIRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MIRG	AAB21255.1	187	EQPHSTGHVENLLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVVKRIAAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLVAFRSLELRNTRFE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNQSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor	P41968	563	IVHSDYLTFFEDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R)	Melanocortin 4 Receptor (MC4R)	AAB33341.1	1032	HSNASESLGKGYSDGGC	Homo sapiens
1062	3058		Melanocortin 4 Receptor (MC4R)	AAB33341.1	1033	KRIAVLPGTGAIRGGA	Homo sapiens
1063	3058		Melanocortin 4 Receptor (MC4R)	AAB33341.1	1035	NSTDIDAGSFTVNIDN	Homo sapiens
1064	3058		Melanocortin 4 Receptor (MC4R)	AAB33341.1	1469	NSTHRGMHTSLHLWNRSSVR	Homo sapiens
1065	3059		Melanocortin 5 Receptor (MC5R)	P33032	1022	ATEGNLSGPNVKNKSSPC	Homo sapiens
1066	3059		Melanocortin 5 Receptor (MC5R)	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059		Melanocortin 5 Receptor (MC5R)	P33032	1025	MNSSFHLHFLDLNLNAT	Homo sapiens
1068	3059		Melanocortin 5 Receptor (MC5R)	P33032	1026	RYHHIMTARRSGAIIAG	Homo sapiens
1069	3061		Melanocortin 1 Receptor (MC1R)	AAD41352.1	1036	QGSQRRLGSLNSTPT	Homo sapiens
1070	3061		Melanocortin 1 Receptor (MC1R)	AAD41352.1	1038	EAGALVARAAVLQQLD	Homo sapiens
1071	3061		Melanocortin 1 Receptor (MC1R)	AAD41352.1	1039	ALRYHSIVTLPRARQA	Homo sapiens
1072	3061		Melanocortin 1 Receptor (MC1R)	AAD41352.1	1040	CQHAQGQIARLHKRQRP	Homo sapiens
1073	3079		Melatonin Receptor type 1a	AAB17720.1	214	HSLKYDKLYSSKNSLC	Homo sapiens
1074	3079		Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens
1075	3079		Melatonin Receptor type 1a	AAB17720.1	216	QVRQRVKPDRPKLKP	Homo sapiens
1076	3079		Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens
1077	3080		Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens
1078	3080		Melatonin Receptor type 1b	P49286	931	LVAIFYDGWALGEEHC	Homo sapiens
1079	3080		Melatonin Receptor type 1b	P49286	932	LVLGARRKAKPESRLC	Homo sapiens
1080	3080		Melatonin Receptor type 1b	P49286	933	CIGDASKGSHAEGLQSPA	Homo sapiens
1081	3080		Melatonin Receptor type 1b	P49286	934	GEMAPQIPEGLFVTSY	Homo sapiens
1082	3081		Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPQNLQAE	Homo sapiens
1083	3081		Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens
1084	3081		Melatonin-Related Receptor	Q13585	753	DRASGHPKPHSRSSAY	Homo sapiens
1085	3081		Melatonin-Related Receptor	Q13585	754	HPKPAADNPELSASHC	Homo sapiens

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSDLPESASSPAAGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMINIKSGVVRVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNIFLNIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTKILYNVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLQEVVVEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSLRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPFRPADTHNEVRFRDR	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVVTLC	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGLFPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEYMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLAIDSSNVEQES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETMILKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGKPKGHPHMSIRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITIKPERVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSVVK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLKYI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMIHWPGSGGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGSWDNGEL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVWSKSNIIIRSVC	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIEC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAIVIKFPFKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAEAEHFPPAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSPISILSHRAGSASRTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAAKPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEGVRC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSTGSDSDSTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWSDGPHIEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAGSVRIPQERKDRITDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWKGKGVREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLLDTPNRAVVI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPNIIIDYDEHKTM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELLGYIRA	Homo sapiens

1126	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	924	KVEDMQWAHREHHPASVC	Homo sapiens
1127	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	925	CESLEINTSSIKTIVSY	Homo sapiens
1128	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMQIRTHSQEYVHS	Homo sapiens
1129	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRTNLGGRDS	Homo sapiens
1130	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	232	DRINHQLLENLEAETAPLP	Homo sapiens
1131	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETFTQTVS	Homo sapiens
1132	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTDRDHPSTANTVDR	Homo sapiens
1133	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEGSPETPPGRC	Homo sapiens
1134	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRILLQAYSWKEEE	Homo sapiens
1135	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEPEGSEVVVKMP	Homo sapiens
1136	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKKGRD	Homo sapiens
1137	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRP GS	Homo sapiens
1138	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVSAVASNMIRDDE	Homo sapiens
1140	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSQITC	Homo sapiens
1141	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEKQINIVARKIVKMTK	Homo sapiens
1142	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKDKKEPVANQDPVPSL	Homo sapiens
1143	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHKKRPEGPKKAKT	Homo sapiens
1144	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKPRPGGRPGGLRNGKLEEA	Homo sapiens
1145	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSSGSATQNTKER	Homo sapiens
1146	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAANVARKEFASIRNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRAIFRSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSEDEDKPAID	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAEETEFTV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADNGNETNNGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPINPSHQM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANILNQFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLITASLAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASPAQSP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTITELVIRC	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTUJSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISSLDNSSFTAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSYLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPEPELIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKRSIF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSLEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHQRRQKTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRDLAIHSEVSVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQTVEMKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SEVSVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSKALEFLADKVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRRLQRQGRVFHKG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor	P50391	1071	CQQSAPLESEHLPST	Homo sapiens
1172	3405	Type 4 Neuropeptide Y Receptor	P50391	2275	SEHCQDSVDVMVFVTS	Homo sapiens
1173	3406	Type 4 Neuropeptide Y Receptor	Q15761	1072	MIKRNQKTTNFGN	Homo sapiens
1174	3406	Type 5 Neuropeptide Y Receptor	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Type 5 Neuropeptide Y Receptor	Q15761	1074	NLTLPKSKSGPQVKL	Homo sapiens
1176	3406	Type 5 Neuropeptide Y Receptor	Q15761	1075	SFIKHRRRYSKKTAC	Homo sapiens
1177	3406	Type 5 Neuropeptide Y Receptor	Q15761	1076	PERPSQENHSRLPEN	Homo sapiens
1178	3406	Type 5 Neuropeptide Y Receptor	Q15761	1077	CFEIKPEENS DVHELRV	Homo sapiens
1179	3408	Type 5 Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Neurotensin Receptor Type 1	P30989	936	CHPFKAKTLMRSRTKK	Homo sapiens
1181	3408	Neurotensin Receptor Type 1	P30989	937	GEQNRSDGQHAGGLVC	Homo sapiens
1182	3408	Neurotensin Receptor Type 1	P30989	938	RQAAEQGGQVCTVGGEHS	Homo sapiens
1183	3408	Neurotensin Receptor Type 1	P30989	939	CPVWRRRRKRPAFSRKADS	Homo sapiens
1184	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAQA	Homo sapiens
1185	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVRSAK	Homo sapiens
1188	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPTGPMASPRLGTFC	Homo sapiens
1189	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLLKGRGGIYTE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKVSQVGGQTSD	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHIPLKAGNDLDIRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVSYSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKKIFKSHLKSSRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKSSRNIFSIVFFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRIGETSASKSNSSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSSDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGGLPRAKRK	Homo sapiens
1205	3589	Purinergic Receptor P2Y ₁ , G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGSPATPARRRLGLRRSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y ₁	CAA07339.1	386	RYSGVVYPLKSLGLKKKN	Homo sapiens
1207	3595	Purinergic Receptor P2Y ₁	CAA07339.1	387	SGTGVRKNKITTCD	Homo sapiens
1208	3595	Purinergic Receptor P2Y ₁	CAA07339.1	388	RALVYKDLDNSPLRRKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y ₁	CAA07339.1	389	DTERRRLSRATRKASRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y ₅	P43657	850	FVQSTHSQGNINASEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y ₅	P43657	851	MVLKTLTKPVTLRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y ₅	P43657	852	TIQNSIKMKNNWSVRRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y ₅	P43657	853	SEVHGAEFIQHNQLTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y ₆	Q15077	874	CISRRALTRTAVVTLN	Homo sapiens
1215	3597	Purinergic Receptor P2Y ₆	Q15077	875	AQERRGKAARMAVVV	Homo sapiens

1216	3597	Purinergic Receptor P2Y6	Q15077	876	TKTAYLAVRSTPGVPC	Homo sapiens
1217	3597	Purinergic Receptor P2Y6	Q15077	877	KKFRRPHQLQLTAK	Homo sapiens
1218	3597	Purinergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKMRSETAIFITN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLURKPATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYNAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTETPLITKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPRLGNATANNTCIVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	248	KAKVQCELNITAGLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	249	ESUMQDDPQNSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	251	EETKEDSGRGDDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	762	ESEEDKEAPTGSRYRGRPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	763	LYSGATLDEAERLITEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	765	KDDGFLNGSCSGLDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIQRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPFLFRIFNPQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDLSDMGVSRNC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRYFAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDLSDMGVSR	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RTTGDLENTIKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QITAGHFRKERIEGLRKRKR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNMKGKGEGMQHEKSIPIYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDEDYNTSISYGDEYPD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPLEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTVCKLHRNRLAKTKKPFK	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMNERTSMNERE	Homo sapiens
1245	3846	Sphingolipid Receptor Edg1	AAA52336.1	1010	TRSRRLTRKNISKASRSSE	Homo sapiens
1246	3846	Sphingolipid Receptor Edg1	AAA52336.1	1011	CPSGDSAGKFKRPIIAG	Homo sapiens
1247	3846	Sphingolipid Receptor Edg1	AAA52336.1	1012	CPSGDSAGKFKRPIIAGME	Homo sapiens
1248	3846	Sphingolipid Receptor Edg1	AAA52336.1	1013	RSKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Sphingolipid Receptor Edg3	Q99500	1028	ERHLTIKIMRPYDANK	Homo sapiens
1250	3847	Sphingolipid Receptor Edg3	Q99500	1029	LVKSSSRKVANHINSE	Homo sapiens
1251	3847	Sphingolipid Receptor Edg3	Q99500	1030	SPKVKEDELPHDTPSSC	Homo sapiens
1252	3847	Sphingolipid Receptor Edg3	Q99500	1031	CLVRGRGARASPIQPALD	Homo sapiens
1253	3847	Sphingolipid Receptor Edg3	Q99500	1752	REHYGVVGKLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTIMVYPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKKSSKHKALKVTTT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERRRDLVKTILKNLGC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	74	ENVSYDLDYYSLESLEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	75	RDTFEENNHTLCYNINFQKHD	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	76	SKKFAQRFRRSSVAEILK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISRLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQRQLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SWRVSVKLRNRVVPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTQSQADWDRAARRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLVAWPRKIA	Homo sapiens

1267	3851	Receptor 10 (GPR10) G Protein-Coupled Receptor GPR12	AAA91630.1	78	GCIPSSLAGRAIRSPSD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISAAVSSRRVPAVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSVVRPLTKNNAA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVITIGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	84	KQKENECLGDVPEVLQE	Homo sapiens
1272	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	85	SMNNRTVQHGVITSL	Homo sapiens
1273	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	86	ETILKYDFPSCDMRKDLR	Homo sapiens
1274	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	87	GRSVHVDFSSSESQRSRHGS	Homo sapiens
1275	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1511	CLKNYDFGSSTEISDSHLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFHFKPGSRRLUD	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTUDDKPYC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVGPKYAKELKNIC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPVKVEKSIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLRSLSLRKSFSGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	97	KVSRKAKKMIASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVRRITMINIVPRTKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	99	RRGMKETFCMSSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	100	KTITKDSIYDSFDREAKEKK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1152	ALLFSQDGGQREGQRRC	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1153	SGDEEDAYSAEPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1154	ALLDADLLAARERC	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1155	RRLRGSSPSGPPRRGC	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KSGGRHILSAGPHALTQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVPLHFLARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGEREPSSGDVVSIMHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNGSSHPCILL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQITANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	ENMQSESNTVRDDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRRHRRERERQKRVFRM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFQKVLKSKMKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKTIFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLG/MCH1	AAH01736.1	1532	CAPGGGGRRWRLPQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLTGPNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGSGCCQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMTSSVAPASQSRIRLTR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNQAIADEERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPLPGGQDSQCGEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRLRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLSRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYSGLDGLEELELCPAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TVWCLLGDAHSPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGTGPAAPLPSPKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLITCGVVVPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGCSFSIIWQEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTFRSSYRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELFRDRYNHTCFEKFPMIE	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRAVRGSVSTERQEKAQIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLRLFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLETPLTSKRNSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLVPSQTVSLLTVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CLAERAAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVWRICQVWVRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIQRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEQGRRCQCVLVFPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RLHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRRLRQLITC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSQDNGTGHNAITFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPWRTYRGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VLRLSGAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDDNFRKNFRSILRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLIEDKKNCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWSLRGRQMDRHAQIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMTGEPDNNRSTVE	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTGSAPEALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNHSHKKGHCHEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITIMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNHSHKKG	Homo sapiens
1344	3870	G Protein-Coupled	Q15743	1192	AVRRSHGTQKSRKQDI	Homo sapiens

1345	3870	Receptor OGR1	Q15743	1193	LMHEEVIEDENGHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDLARLG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPEASG	Homo sapiens
1348	3921	Prostaglandin Receptor	P43119	1188	CRMVYRQQKRHHQGSGLGPRPRT	Homo sapiens
1349	3921	Prostaglandin Receptor	P43119	1189	CFIQAVAPDSSEMMD	Homo sapiens
1350	3921	Prostaglandin Receptor	P43119	1190	ASGRDRPRAPSPVKGEGSC	Homo sapiens
1351	3921	Prostaglandin Receptor	P43119	1191	SAWGEGQVEPLPTQQ	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTTSVEKGNASV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLVAMHRRRLQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPKADGREASQPLEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNITSEAEEDLRLR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAGRLRRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVTRPLLHAARVSVARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPDSSRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAHDEVEMVGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRGDIVGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLPPGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKWDLQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTIRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKKSFLLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	974	CRAKATASGSQAQWGR	Homo sapiens

1368	3926	EP3	Prostaglandin E2 Receptor	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	EP3	Prostaglandin E Receptor	P35408	382	RLSDFRRRRSFRRIAGAE	Homo sapiens
1370	3927	EP4	Prostaglandin E Receptor	P35408	383	EREVSKNPDLQAIRAS	Homo sapiens
1371	3927	EP4	Prostaglandin E Receptor	P35408	384	DSQRTSSAMSGHSRSFSRE	Homo sapiens
1372	3927	EP4	Prostaglandin E Receptor	P35408	385	RTLRISETSDSSQGQDSE	Homo sapiens
1373	3928	Receptor	Prostaglandin F2-alpha	P43088	1046	ILMIKAYQRFRRQKSKAS	Homo sapiens
1374	3928	Receptor	Prostaglandin F2-alpha	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Receptor	Prostaglandin F2-alpha	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Receptor	Prostaglandin F2-alpha	P43088	1049	CFYNTEDIKDWEDRFY	Homo sapiens
1377	3928	Receptor	Prostaglandin F2-alpha	P43088	1050	RVKFKSQHRQGRSHLE	Homo sapiens
1378	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	252	QGTNRSSKGRSLUGKVDGTS	Homo sapiens
1379	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTSKKHSRKSSYS	Homo sapiens
1382	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNNLAKPTLPIKTFR	Homo sapiens
1383	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLHVKNATMG	Homo sapiens
1384	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCVDVHNTCESSSP	Homo sapiens
1385	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNHSTAYLTK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17	G Protein-Coupled Receptor GPR17	CAB08108.1	88	RDHKSGETPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQRILALNR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEKTNESLSAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYYTLKPEVNNESFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFYIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYLSLHG	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGSDDC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGDNRNFTSFL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLKSGHLQVNTT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLQELSRQETGDLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPFLRLMLTSRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVNDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSDDVITYCDAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MRLKLTQETRGNEVSH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEPGRNASQNGTLSEG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENLESGGVFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDVNMFTSIYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVEDFQPENILES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSEKRYKSE	Homo sapiens
1410	4481	Somatostatin Receptor Type	P30874	1000	CLVKVSGTDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type P30874	1001	KQDKSRLNETETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type P30874	2276	DMADEPLNGSHWLSIP	Homo sapiens
1413	4482	2	Somatostatin Receptor Type P32745	1002	KVRSAGRRVWAPSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type P32745	2622	REGGKGKEMNGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type P32745	2624	TTSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type P32745	2626	QPGTSGGQERPPSRVA	Homo sapiens
1417	4483	3	Somatostatin Receptor Type P31391	1007	IFADTRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type P31391	1008	CLLEGAGGAEEDLDY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type P31391	2627	KMRAVALRAGWQRR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type P31391	2631	CRAVLSVDGLNMFVS	Homo sapiens
1421	4483	4	Somatostatin Receptor Type P31391	2633	CLVGLVGNALVIFVL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type NP_001044.1	2637	SLPILLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type NP_001044.1	2638	CLRKSGGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type NP_001044.1	2639	RIRQQQEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type NP_001044.1	2643	RVAKLASAAAWVLSLC	Homo sapiens
1426	4552	5	Tachykinin Receptor 1 AAA36641.1	1339	CMIEWPEHPNKEYKV	Homo sapiens
1427	4552	5	Tachykinin Receptor 1 AAA36641.1	1340	CPFSAGDYEGLMKSTRYL	Homo sapiens
1428	4552	5	Tachykinin Receptor 1 AAA36641.1	1341	KVSRLETISTVVGAAHEE	Homo sapiens
1429	4552	5	Tachykinin Receptor 1 AAA36641.1	1342	EPEDGPKATPSSDLTSNC	Homo sapiens
1430	4687	5	Thrombin Receptor P25116	1202	EDEEKNEGLTEYRLV	Homo sapiens
1431	4687	5	Thrombin Receptor P25116	2582	AVANRSKSRALFLSAAVFC	Homo sapiens
1432	4687	5	Thrombin Receptor P25116	2583	SINKSSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNDKVEPRWE	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDDST	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRKLNCNCKGKPTIE	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYSVAlNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDITVID	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EIQKNKPRNDDIFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SYRPSDNVSSSTKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGKIRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAlPIL	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYQSVVPFLSQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLLKTNsyGKNRITRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPIITWLQGKRSMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDITRPEEFdHYVHFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRQLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPURALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HITRTIYVLARLLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAEALGEGNGPPRDVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKTASRQSKGAEG	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQIFYSNINRSPINSTGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATIPWLGRDEELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AAA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AAA65687.1	269	ESPRDLEADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLARAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHSGGAHWNRPLVAVAWAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLIFREIHASLVPGPSEK	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPPSLGPQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRTPNAILIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSVMIVIA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNIRDWSDQIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKFRRLAMLFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSDAR	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRVVDREQEGNGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSVFGDGI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAQAESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMRVYEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDKSKQRAGSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRRAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWVS/SSGGAAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFPTNFPGLQKKE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPEKEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKHRAGQMSEPHSLTKC	Homo sapiens

1481	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	979	CTDDNLRGADMIVHPQER	Homo sapiens
1482	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	980	SRSETGSTSMSSLERR	Homo sapiens
1483	6031	Inhibitor 3	SIV/HIV Receptor BONZO	O00574	1101	NDSSQEEHQDFLQFSK	Homo sapiens
1484	6031		SIV/HIV Receptor BONZO	O00574	1102	KATKAYNQQAQRMTWG	Homo sapiens
1485	6031		SIV/HIV Receptor BONZO	O00574	1103	KTLHAGGFGQKHSRLK	Homo sapiens
1486	6031		SIV/HIV Receptor BONZO	O00574	1104	SLKFRKNFWKLVKDIGC	Homo sapiens
1487	6031		SIV/HIV Receptor BONZO	O00574	1105	KSSEDNSKTFASHNV	Homo sapiens
1488	6204		Lysophosphatidic Acid Receptor Edg4	AAC27728.1	66	ERHRSVMAVQLHSRLPRGR	Homo sapiens
1489	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	67	RRRVQRMAEHVSHPRVRE	Homo sapiens	
1490	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	68	NAAVVSCRDAEMRRITRR	Homo sapiens	
1491	6204	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	69	RGSTRESVHYTSSAQGGAST	Homo sapiens	
1492	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213		C-C Chemokine Receptor 5	AAC50598.1	39	QQEAPERASSVYTRSTGEQE	Homo sapiens
1494	6213		C-C Chemokine Receptor 5	AAC50598.1	40	RSQKEGLHYTCSSHFPYSQ	Homo sapiens
1495	6213		C-C Chemokine Receptor 5	AAC50598.1	309	MDYQVSSPIYDINVTSEPC	Homo sapiens
1496	6363		Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1092	EDEYDVLIEGELEDEAEQC	Homo sapiens
1497	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1093	KGNIFSARRRVPCCGIITSVL	Homo sapiens	
1498	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1094	MRKTLRFREQRVSLFKLVFA	Homo sapiens	
1499	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1096	RSNTPLQPRGQSAQGSRE	Homo sapiens	
1500	6446	Pael Receptor (GPR37)	AAC51281.1	127	GPNGSARDVLRARAPREEQG	Homo sapiens	
1501	6446	Pael Receptor (GPR37)	AAC51281.1	129	DPGGPRRGNSTNRRVRLKNP	Homo sapiens	
1502	6446	Pael Receptor (GPR37)	AAC51281.1	130	LRQLSKEDLGFSGRAPAERC	Homo sapiens	
1503	6446	Pael Receptor (GPR37)	AAC51281.1	131	PRGAVISGRSQEQSVKTVPG	Homo sapiens	
1504	6446	Pael Receptor (GPR37)	AAC51281.1	1781	CIGKSTVTSDDNDNEYITE	Homo sapiens	
1505	6446	Pael Receptor (GPR37)	NP_005293.1	1806	CIGKSTVTSDDNDNEYITE	Homo sapiens	
1506	6536	Putative Neurotransmitter Receptor (PNR)	O14804	319	TDVWETRLSQWLEEMPC	Homo sapiens	

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFSPQIR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	G Protein-Coupled Receptor TM7SF1	O60478	788	KAKSKYSPELLKYRLP	Homo sapiens
1511	6777	G Protein-Coupled Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWNVSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKLTNPGMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIAPOGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFHLKRPQQGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLRSFGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MRVLNVDDARRRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADDKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGALYRFSIRKQIR	Homo sapiens
1521	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHHEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQRPLLFASRRQSSARTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAEFPQSKSQSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMD	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPVAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDILLHMEAAAGALRPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGDLEQGLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSATPGAGMGVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPDQLGDLQGLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLSLQSRRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRITSTSRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANTRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSNTNTPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	QQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMRSSRKC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DRYYSVLPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKEYIGSADFQAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNSKKRLLPPLGNTPPEE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELUQTKVPKVGRVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQRKAQNFTSILIAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKKDRLLFTT	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLRRRNAKVDKKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDKYVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKYIRLKRNNNMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFRSRDDDDVETIAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDCHILPLAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAQLLAFENDDC	Homo sapiens

1555	9834	Type 1 Corticotropin releasing factor Receptor 1	NP_004373.1	1778	CESLSLASISDNGYRE	Homo sapiens
1556	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Fitzled-2	NP_001457.1	1774	NHSEDGAPALLTAPP	Homo sapiens
1558	10457	Fitzled-2	NP_001457.1	1775	GGAPPRVATLEHPHC	Homo sapiens
1559	10457	Fitzled-2	NP_001457.1	1776	CEPARPDGSMFFSQEE	Homo sapiens
1560	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1083	LYRVRPPREKIGRRRA	Homo sapiens
1562	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1085	PRELAAGGSFHGCLYR	Homo sapiens
1563	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1086	CKTVRLSDVRVRPVNTYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PFLLDAAPCEPESLE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVYSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKPFLVVVGRKKMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEVVPNGELVRDPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNQRWGRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRNEPANINQGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFRURRTLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNITGGSDVCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGKMINRSCQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQTSSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPELHPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAIVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVGNIKFNSSGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWYE	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMRLGPTSNE	Homo sapiens

1581	16599	Smoothed	NP_005622.1	2670	EAEISPELQKRLGRKK	Homo sapiens
1582	16599	Smoothed	NP_005622.1	2671	ANVTIGLPTKQPIPDG	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPADRAYVW	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNAVVRVHNGSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRRIGPSTVYC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDIRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSSFYVDYLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAGPYHRLTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRLRPAGQGRLK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENYPNKEDVGNK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRIHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEKKKEWRKTLEPWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEVVCRGEREVWGPKVRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKDNSSLPWRLDSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVWSKLKANLMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIQRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPQP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAASYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITTVLS	Homo sapiens

1604	18471	Receptor LOC51210	NP_057456.1	1524	QGTLILYPD AHLSAED	Homo sapiens
1605	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1525	PKTPLKERISLPSRRS	Homo sapiens
1606	19072	G Protein-Coupled Receptor LOC51210	ENSP00000164265	2030	SWVQLRRQRDPDFEWNEGLC	Homo sapiens
1607	19072	G Protein-Coupled Receptor Ls19072	ENSP00000164265	2032	PAVGWHDTSERFYTHGC	Homo sapiens
1608	19072	G Protein-Coupled Receptor Ls19072	ENSP00000164265	2047	AVQVGRQADRRRAFTVPT	Homo sapiens
1609	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1513	EHPAGEEALRQKRAVATK	Homo sapiens
1610	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1514	ALRQKRAVATKSPTAE	Homo sapiens
1611	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1515	CEKEVLSSNVSWRYEEGQLE	Homo sapiens
1612	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1518	RLANNTGGWDSSGCYVEEGD	Homo sapiens
1613	19501	G Protein-Coupled Receptor KIAA0758	G9UIZ3	1519	CKQEKSSLFQISKSIG	Homo sapiens
1614	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2164	CTAFQRREGGVPGRPGSPG	Homo sapiens
1615	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2167	CPAERVANNIRGDFRWPR	Homo sapiens
1617	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2171	GNPPPEPPADGQLRFRC	Homo sapiens
1618	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2175	VPLGGGAPGTRASRRC	Homo sapiens
1619	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	425	PAARVHRPSRCRYRD	Homo sapiens
1620	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	426	TLARPDATGSQRRRTKTVRL	Homo sapiens
1621	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	427	RSKLVAASVPARDVRG	Homo sapiens
1622	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	428	AQSERSAVTTDATRDP	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSISR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQD	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTEPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CHYRDKHNAKGAEAFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLRRFQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2721	RLQEILLTEKINKTR	Homo sapiens
1632	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHKIRDALR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVWIMRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1579	KLPNNELHGQESHNSGN	Homo sapiens
1636	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDDGPGKNTTLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQFISQSSSRKRKHNGSIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAGKILWYC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRLLFKKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIVYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLTEEGGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAGRTGKKNSSSTSSSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYVREPFVQRQRISR	Homo sapiens
1644	31568	G Protein-Coupled Receptor RE2	O75963	334	HSSSTGDTGFSCSQDSSGNL	Homo sapiens

1645	36534	Receptor RE2	O75473	1232	CQKLQKIDLRHNEIVEKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	O75473	1233	NKGDNSSMDDLHKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	O75473	1234	QDERDLEDFLLDFEED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	O75473	1235	ERGFVVKYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	O75473	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2597	DAQKESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2600	CKKINQLUSETAEAVVTN	Homo sapiens
1652	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2610	ADDQTLLQGMMDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2672	KYNGQSISLRRLASQ	Homo sapiens
1654	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2673	KRYFAKFEKFFQTC	Homo sapiens
1655	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	2674	DGDRQKAMKRLRVPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2103	RVRSGRVRSYSTRDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2105	CNNSVPGKEHPDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2106	APSKPGLPKQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2135	AASKPKSTPAVIQGPSGKD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	O00406	1261	KRSELNKTLLTSETYFIMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	O00406	1262	GNASTERNGVSFSVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	O00406	1263	CRKKKKQLGAQRKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	O00406	1264	DTFGKGHMFNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNNVPASAGNQTKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGMVNVVSSLSNEPD	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKFSVHNG	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRAARSLTPRRTR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEPASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGQVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKQSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSTPSRLELSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVPSTSTPGSSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFIIG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVLTLPRTKIGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAGAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRDRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLFHVATHASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIEISDTESFNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKQIKTISGKTPQGYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATQNRFRFQFTGNQKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIQEEYRUFKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLKIRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KLSVNHRRHTLTKLMHTVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFLSHRKVTDYRSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSSILLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSSEYELQQGSMKRSNRK	Homo sapiens

1690	56923	Receptor M3	P20309	1422	KPSSEQMDQDHSSSDSWNNIN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAGKSVD	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Muscarinic acetylcholine Receptor M3	NP_062813.1	2097	PPTCRPRRMSVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRLRSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARGVR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RITPQLKVVGQGRNGD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRRRLRARTHLPGC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMPRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSFR	Homo sapiens
1702	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDSEDPG	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSLGKDDLRFSSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRTNSVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREQK	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRPFSRPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGQEAAGQRPRDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRTE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRLSRPRRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPSLTLRVPTLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDITIFHKVLSSGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILRTLFRSRKRHRRTVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRITQIIPSCCAKQGLE	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPSPGAFAYE	Homo sapiens
1718	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1589	RIEPWYSIYNSSPSQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQTLRKNAQVRKC	Homo sapiens
1720	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1591	RNQNNYNKLQHVQTRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNLEVN	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPKQKFFVDQAC	Homo sapiens
1724	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1218	CKVQDSNRKRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVRGRKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFSELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQRNPMDPYVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AAB05897.1	1286	RRAVPGHQAHGANILRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AAB05897.1	1287	KEDKLELPTLSLRVNR	Homo sapiens
1731	152198	Tachykinin Receptor 2	AAB05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AAB05897.1	1290	CVVWPEDSGGKILL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RQRKSVNALNSPLHQE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYVVFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKYITVRNPQYNPGDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPPKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_000639.1	1896	SRSRFRINTNESGEEVTT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_000639.1	1898	CQKEDSVVVC GPYFPRGWNIN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_000639.1	1899	SGEEVTFFDYDYGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNTGMPADEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLFFLFRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSYSSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLETETLNKVVIIAYALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPINISIGRNASVGNHRRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFTVYTHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	VVMCIDREEESHRNDICRAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMQPRRQKDNK	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNITTEQVRSNGNEITC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTNEIDRGVGGGEGMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQVLRNQGSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1292	KQCILEEAQLENETIGCS	Homo sapiens
1754	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1297	LQKLRRPPDIRKSDSSP	Homo sapiens
1756	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1298	NPKYRHPSGGSGNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1299	KVFSNFYSKAGNISKNC	Homo sapiens
1758	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1301	CGYSDEPEDESKITFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2 Vasoactive Intestinal	P41587	1306	CGSSFSRNGSEGALQFHR	Homo sapiens
1761	160055	Polypeptide Receptor 2 Motilin Receptor (GPR38)	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	AAC26081.1	134	SPSPGPETAEEAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	AAC26081.1	135	SSRRPLRGPAASGRERGRHQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRPRGFHRSRDITAG	Homo sapiens
1765	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1595	NPLVTGYLGRGPGLKTV	Homo sapiens
1766	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1596	GRYLGAFFPLGVQAFRRPC	Homo sapiens
1767	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
1768	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
1769	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1599	NASNVASFYLPNLGGSWRK	Homo sapiens
1770	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1617	TVSLPIKAVEALASGA	Homo sapiens
1771	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1618	DHSNTSLGINTPVNGSPVC	Homo sapiens
1772	160189	G Protein-Coupled Receptor GPR54	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
1773	160189	G Protein-Coupled Receptor GPR54	BAB55446	1927	ERAGAVRAKVSRVAAV	Homo sapiens
1774	160189	G Protein-Coupled Receptor GPR54	BAB55446	1928	RRPGSPDPAAPHAELHRLGS	Homo sapiens
1775	160189	G Protein-Coupled Receptor GPR54	BAB55446	1929	GAPANASGCCPGCGANASD	Homo sapiens
1776	160202	Adrenomedullin Receptor (ADMR)	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
1777	160202	Adrenomedullin Receptor (ADMR)	O15218	391	NVLTACRLRQPGQPKSRRHC	Homo sapiens
1778	160202	Adrenomedullin Receptor (ADMR)	O15218	392	KDQTKAGTCASSSSCSTG	Homo sapiens
1779	160202	Adrenomedullin Receptor (ADMR)	O15218	484	KGDSQPAAAAAPHPEPSLS	Homo sapiens
1780	160204	G Protein-Coupled Receptor RTA	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLTEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGSTPNVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTTRKWNCGTHCYLAFNSD	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLIREGWWHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMLKEIYHPRMLLJ	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEFEFLSSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMNSSGGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAASVSLRLQHRGRRPGR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRTISSTA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEGHLELEPPRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYDHAADVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMRRQTVVTWVLLHLSLSDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYFVFRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYNNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFFVTSIAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEEPRGPARRLLGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPQTGPIPLRALSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFPSHEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPKPKRKANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYSVVDVCIFE	Homo sapiens
1807	160217	Receptor GPR52 G Protein-Coupled	AAD22410.1	161	GKVEKVMCFHNMSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSIHILLGRRDHTQDWVQGK	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSFLLQLSM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMINIRAHRPSPVQLVLQ	Homo sapiens
1811	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	2	AQRPPPTDVGGQAEATRKAAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFQEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHNFNSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYITSKLSDANC	Homo sapiens
1815	160221	Receptor GPR35 G Protein-Coupled	LR6	335	FPPVLDGGGDEDEAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRILLVEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGGGGEEAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	O54897	515	GLRALACLPVAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARILLVLE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPPKPEEDGGQSPV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNMIGDVTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADEGSAEALAVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	GNFVGRRRYGAESQNPVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RIFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVVALESRRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLTHSRDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	403	ETQEQGSRSKRGTEDEEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPKDKGGTPDSGQELR	Homo sapiens
1830	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Sphingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLFRMIRE	Homo sapiens
1833	160225	Sphingolipid Receptor Edg6	CAA04118.1	71	ERFATMVRPVAESGATKTSR	Homo sapiens
1834	160225	Sphingolipid Receptor Edg6	CAA04118.1	72	RLVQASGGQKAPRPAAR	Homo sapiens
1835	160225	Sphingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASTDSSLRPDR	Homo sapiens
1836	160225	Sphingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGGQKAPRPAAR	Homo sapiens
1837	160225	Sphingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPDSFRGSRSLFRM	Homo sapiens
1838	160225	Sphingolipid Receptor Edg6	CAA04118.1	1916	RSLSFRMREPLSSISVR	Homo sapiens
1839	160225	Sphingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLGALGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDEVVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVVQAVRHINKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHSNGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQQRKRRLSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKNFTLCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWWSKDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTIQVILKYEK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CQRPADLPAAAGSEMQRIP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDESLVDSDSKTG	Homo sapiens
1850	160312	Spingolipid Receptor Edg5	O95136	1018	ERHVAIAKVKLYGSDKSC	Homo sapiens
1851	160312	Spingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRPLQC	Homo sapiens
1852	160312	Spingolipid Receptor Edg5	O95136	1020	QEHVNYTKETLETQET	Homo sapiens
1853	160312	Spingolipid Receptor Edg5	O95136	1021	GRRRVGTPG-HLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1922	MMRKAKFSURENPVEETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1924	CEQTEEEKKLRLHLFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1925	KRRVGDGSLVRIHGMKMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARRERFIMNEKWDINSSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNQEQWHVVSRRKQKLIK	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPGQELVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAQDRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSCKDKNNIN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1623	ARVPYTHSQTNINKTDC	Homo sapiens

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKTTASSQENHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PLRARALRGRRALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRTIRLARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFQIRSPGDT	Homo sapiens
1871	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	O9Y653	1213	CELRDLQLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	O9Y653	1214	TSVRFMGDMVSEEDR	Homo sapiens
1873	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	O9Y653	1215	RQEEEQSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	O9Y653	1216	RTLFGRTIKGRSGAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2 Receptor	O95838	1312	GSLEETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2 Receptor	O95838	1313	QTENATDIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2 Receptor	O95838	1315	CPKKLSEGDGAELRK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2 Receptor	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPSTHSEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATQQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSGDFPPGDDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSSPPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNYNKMHKRETC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSPDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLSGRGRGSSGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELTGHLVPHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven- Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven- Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDTPEGVNSLDP SHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven- Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSQKSGPSYPFLREES	Homo sapiens
1890	160397	Latrophilin-2	O95490	1132	CEALDSKGIKWPQTQR	Homo sapiens
1891	160397	Latrophilin-2	O95490	1133	DILDAQLQLKPKSEKD	Homo sapiens
1892	160397	Latrophilin-2	O95490	1136	RTHSLLYGPQKKVKSE	Homo sapiens
1893	160397	Latrophilin-2	O95490	1137	RDSPYPESPDMIEDL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTILDLSYNNIRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTADAANVTILENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERSLSAKDIMKNKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTKKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLRTEEAHGREQRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDITDRRESLFSAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMIPKIDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKDNENYP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFLKAKEATLL	Homo sapiens

1909	160889	Homolog (H963) Platelet Activating Receptor	O14626	1226	ETFA SPKETKAQKEKLR	Homo sapiens
1910	161024	Homolog (H963) Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRRC	Homo sapiens
1911	161024	Protein A	NP_062832.1	1691	EDARGKRSSLDGSESAK	Homo sapiens
1912	161024	Protein A	NP_062832.1	1692	RTVWEGQCVAIMSEEDGD	Homo sapiens
1913	161024	Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024	Protein A	NP_062832.1	1694	RRLSHDETNIFSTPRE	Homo sapiens
1915	161024	Protein A	NP_062832.1	1695	GGPEYVLGQRHRLDEED	Homo sapiens
1916	161024	Protein A	NP_062832.1	1696	REEITTFIDETPLPSP	Homo sapiens
1917	161024	Protein A	NP_062832.1	1697	RRPRPLGLSPRRLSLGSPE	Homo sapiens
1918	161214	Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214	Galanin Receptor GalR3	AAC35944.1	203	GAAAAEARRRATGRAGR	Homo sapiens
1920	161214	Galanin Receptor GalR3	AAC35944.1	204	ASRHFRRFRRLWPC	Homo sapiens
1921	161214	Galanin Receptor GalR3	AAC35944.1	205	RAIRRALRRVRPASSGPP	Homo sapiens
1922	161221	Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRPLDTVQRPKG	Homo sapiens
1923	161221	Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSGRASFKRARRPGAR	Homo sapiens
1924	161221	Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGRVRGPGSG	Homo sapiens
1925	161221	Urotensin-II Receptor (GPR14)	LR15	374	RAREFGRCSGRSLSCSPQPTD	Homo sapiens
1926	161249	G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPEDNLITDEALRLK	Homo sapiens
1927	161249	G Protein-Coupled Receptor GPR66	LR20	395	IGLRLRRERLLMQEAKGRG	Homo sapiens
1928	161249	G Protein-Coupled Receptor GPR66	LR20	396	RGSAAARSRYTCRLQGH	Homo sapiens
1929	161249	G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251	Purinergic Receptor P2Y10	O00398	859	CFELLKPFARDWKRRVD	Homo sapiens
1931	161251	Purinergic Receptor P2Y10	O00398	860	PFPILRSTDLLNNKSC	Homo sapiens
1932	161251	Purinergic Receptor P2Y10	O00398	862	QLSRHGSSTVTRSLMSKE	Homo sapiens
1933	161251	Purinergic Receptor P2Y10	O00398	863	LRGPPMAFGISERQK	Homo sapiens
1934	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YYDDLDDVDYEEAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYVPENSTNVWRRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYYVIRRLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEKGP	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLISPAAPTASPPAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRPGPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTTDRDVGSNVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTSTTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1317	TSPFLMAKPQKDEKNNTKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1319	QRTIHLHLHNETKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1320	RKHLSSVTVPKPKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAGQGDTIRRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRIRLRIDGAREAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSFTQIRFLSRDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPSLRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKIMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTILSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRAGQPWALLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFICALSL	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPTSGSIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERRPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGTMKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMVRHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDVTIMKALALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSLRLPPEPRRFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGALRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neurexophilin U Receptor 2	LR28	420	QQKLEDPFQKHLNSTEE	Homo sapiens
1965	189874	Neurexophilin U Receptor 2	LR28	422	KDKSLEADEGNANIQRPC	Homo sapiens
1966	189874	Neurexophilin U Receptor 2	LR28	423	SQHDPQLPPAQRNIFLTC	Homo sapiens
1967	189874	Neurexophilin U Receptor 2	LR28	487	ILHPRAKLQSTRRALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKQLNRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSGKGKTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESGETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMSEEFREGKGVWK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKVPSPEPASIEK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTPVSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQIPGPGTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled	AAK12637.1	1686	ETPRQRSESLSSRSTMVTS	Homo sapiens

1978	189895	Receptor GPR61 G Protein-Coupled Receptor GPR61	AAK12637.1	1687	SSGAPQITPHRTFGGK	Homo sapiens
1979	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEEELRLPSREGSIEE	Homo sapiens
1980	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVSRPLSPKQE	Homo sapiens
1981	189900	Spingolipid Receptor Edg8	LR1	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1982	189900	Spingolipid Receptor Edg8	LR1	316	ALERSLTMARRGPAVSS	Homo sapiens
1983	189900	Spingolipid Receptor Edg8	LR1	317	DGSFSGSERSSPQRDGLD	Homo sapiens
1984	189900	Spingolipid Receptor Edg8	LR1	318	CGRDPGSGSQSASAAEASG	Homo sapiens
1985	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2266	ASRKAAEIGKLVQGEVS	Homo sapiens
1986	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTKPSASLR	Homo sapiens
1987	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYLLHETWREGAAAC	Homo sapiens
1988	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGRQGPVSD	Homo sapiens
1989	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTSNTVFLVSL	Homo sapiens
1990	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVDESSYQPSR	Homo sapiens
1991	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIKYPFREHLQKKE	Homo sapiens
1992	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1993	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLQQRNRQVATAPLE	Homo sapiens
1994	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSWKQYQC	Homo sapiens
1995	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNLRLHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFLAVGNPDLQIPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHNALRIHSYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLMSLQRPFQMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSFKFLPQLPGHTKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHRTIQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1716	KNKSFSGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1717	RNNNEVVGKESYGKEKGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1719	TSKSKSSSTTYFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1720	DKSLSLAHADGDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPLLRTSDDTPGNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAQDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQLHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVLTIQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPIVTENAERQILVVKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTILFDGERERK	Homo sapiens
2013	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1729	EGKEGDYIRIPERILLDVQD	Homo sapiens

2014	190168	Receptor VLGR1	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
		G Protein-Coupled Receptor GPR58				
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNLRENQNNQVKKDKKA	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPVLFDALT	Homo sapiens
2017	190168	Receptor GPR58				
		G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQIHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKDRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMRLTSI	Homo sapiens
2022	190188	G Protein-Coupled Receptor LGR6	LR36	439	ENHDQDLDELQLEMEDSKP	Homo sapiens
2023	190188	G Protein-Coupled Receptor LGR6	LR36	440	NPHFRDDLRLRPAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDLHLDDESSKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1836	CAARRQHALLVNVKRHSLE	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSSESV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPPS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGETGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVKRAAGALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFGELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGDAQINSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSSEFGK	Homo sapiens
2036	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSYNVLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTSIPYYWWPNIWT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUYSLLSFSIPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FFFLWHVDRE	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTISTLDTLTP	Homo sapiens
2043	190427	Cysteinyl Leukotriene C _{YSLT2} Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyl Leukotriene C _{YSLT2} Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyl Leukotriene C _{YSLT2} Receptor	LR49	473	KDRUKSALRKGHPOKAKTKC	Homo sapiens
2046	190427	Cysteinyl Leukotriene C _{YSLT2} Receptor	LR49	512	MEPNGTFSNNNSRNC	Homo sapiens
2047	190427	Cysteinyl Leukotriene C _{YSLT2} Receptor	NP_065110.1	2253	CTIENFKREFFPIVLIIF	Homo sapiens
2048	190427	Cysteinyl Leukotriene C _{YSLT2} Receptor	NP_065110.1	2254	GVLGNGLSIYVFLQPYK	Homo sapiens
2049	190427	Cysteinyl Leukotriene C _{YSLT2} Receptor	NP_065110.1	2255	ADYYLRGSNWIFGDLAC	Homo sapiens
2050	190427	Cysteinyl Leukotriene C _{YSLT2} Receptor	NP_065110.1	2256	FRLHVTIRSAWILC	Homo sapiens

2051	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2257	CGIILWILMASSIMILLDSGS	Homo sapiens
2052	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2258	CLELNLYKIAKLQTMNYIAL	Homo sapiens
2053	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2260	VSHRKALTTIITLIIFLC	Homo sapiens
2054	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2261	CFLPYHTLRTVHLTWKVGIL	Homo sapiens
2055	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2262	CKDRLHKALVITLALA	Homo sapiens
2056	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2263	YFAGENFKDRLKSALRKG	Homo sapiens
2057	190427	Receptor Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2264	HPQKAKTKCVFPVSVWLKKE	Homo sapiens
2058	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	429	DSVSVEYGDYSDLSDRPVDC	Homo sapiens
2059	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	430	RESQGGQDESVDKSKTSHD	Homo sapiens
2060	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	431	PSAIVRRLHQEHFAPRLQC	Homo sapiens
2061	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	432	CHWALRESQGQDESVDSSKS	Homo sapiens
2062	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	NP_060955.1	2818	MGNDSVSVEYGDYSDLSDRPVDC	Homo sapiens
2063	190438	Receptor G Protein-Coupled Receptor Ls190438	ENSP00000080322	2585	TERLKIRWHTSDNQVRPQAC	Homo sapiens
2064	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	434	EADLGATGHRPRTLEDDED	Homo sapiens
2065	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	435	RTCHRQQQPAACRGFARVAR	Homo sapiens
2066	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	436	EERPGSFTPTPTQTQLDSEG	Homo sapiens
2067	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	437	RSDPTAQPLNPITAPQSD	Homo sapiens
2068	190595	Receptor G Protein-Coupled Receptor SH120	NP_057418.1	1730	RNVITDILALERILLQ	Homo sapiens
2069	190595	Receptor G Protein-Coupled Receptor SH120	NP_057418.1	1731	KKKRMAMARRTMTFQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTTSASGSENLTUQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDALIELSRQLFLEIAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKIDPVTRGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC5B	O75205	411	VRLPFIKEKEKKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC5B	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC5B	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC5B	O75205	414	SQPRMRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPAIVGSLKAGNAYSRLHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSSHSSYTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKILLNLTGMRRKNITCQN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTILVQAIRTSYME	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKNGESLWQRQLQSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPYPSTHIRST	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPPRPGGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLTASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSVAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQRR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRPRAERKTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	2569	MDTGPDQSYFSGNHWVFVS	Homo sapiens

2092	190701	Receptor GPR41 & GPR42	AAF61299.1	1441	VAIYAYKKQRTKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVIKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMIDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVVEFPDSEGPTEP	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRTRGHGRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRRERFKALKSLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATTKPEHEDQGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPVLDVGTYSFIREEDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAASQIN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDFEKMKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTLLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGWARRQAPAGDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLHLRRSIHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRQRATKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEEVSGALSPPSASAVVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRRLLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLIRTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMAATHAVYGKLLLFYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7TBA62	LR23	550	RRAPGPSDTFVFNALAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7TBA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7TBA62	LR23	552	RREPRQALAGTFRDLRSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7TBA62	LR23	553	KQVGRRVWVASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	568	KDCIESTG DYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTFLGDSGR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSREVLQEKQEKHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMILRGNPQFQRQPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RSGEGGPGQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKKRSLGTVVFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGGSMFVENKAFSMD	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKTYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTVLVMRKKNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPPLFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQIKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMIKIASMHSGQIRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSPRTSPDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTSSSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSLFLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLLNPLYAYWQKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRPPRPARGSRURSD	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGRLSRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSILPPRLRPLGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAPEQITE	Homo sapiens
2139	190749	G Protein-Coupled Receptor GPR62	LR48	2702	VVARRAALRPPRPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAPEQTPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAPEQTPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDTNSTINLSLSTRVTLAFF	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNLRLHRSSVFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYPHTLFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLKIVTLMAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMILVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFFSEWYLAITSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AYFNMINIYWSLWKRDLHSLRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGLSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSQSDVALHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSWWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTTPGKGTGTVAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMKYKEIGIAVD	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQTSDIATINSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	481	TEVPDSAQTSNTHITSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	522	GDTAVERLNVFITMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	523	MSLAKRVMITGLWIFTI	Homo sapiens
2159	190824	Formyl Peptide Receptor-	LR14	525	LHFIIIGFTVPMISITV	Homo sapiens

2160	190948	like 2 (FPRL2)	NP_038475.1	1658	DELLEAPGDLETLPRLQQHC	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHLLDGLDVLRLSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGFSVGLVSPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SKGIRKLKTESEMHTLSS	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVTLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGGLLQDGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSVTALMVLNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSQKLRTKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRLLQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGSEASSTRIRGGS	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMMILFGKIFQKDSIRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RNYLAKAQARLUSDANQK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEEIYWKVHC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNNWSNDVRASLYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRRSVRSLPGVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLLYSG	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRVSV	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSVVRIRGVGVKVPK	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILNRSQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTRPKTSNPKNILLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAQSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVDAVIDAYMNF	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSITNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCIDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TFLITSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDCLKQKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLSISCSIEHQIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QQAVCSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGCF	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQGPILKLA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSTFTVMT	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFEULWWKSDV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AFLSDNTIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLKQIGSKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVPRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	CQDTSSTKTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1666	RDVESKVLLETALKDPEQK	Homo sapiens
2203	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1667	KIQNDSVAIETQAITDNC	Homo sapiens
2204	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1668	CSEERKTFNLNVQMNSMIDIR	Homo sapiens
2205	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1669	EEMDKKDDQVYLNQVVSAA	Homo sapiens
2206	193511	Mucin-Like Receptor EMR3	EGF-Like Module-Containing	AAK15076.1	1670	SKSVLTFTQHVKMTPTSK	Homo sapiens
2207	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2142	CLLLPTAVIVFSVVKIAK	Homo sapiens
2208	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2144	RPDSIPQLSVVPTLLA	Homo sapiens
2209	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2145	CQTGGGLKATKKKSLEG	Homo sapiens
2210	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2146	RLHTVTVRKSSAVILE	Homo sapiens
2211	193516	Mucin-Like Receptor EMR3	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2620	PTAVIVFSVVKIAKV	Homo sapiens
2212	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1947	KLAQRRLREVTHGTDHYFSQD	Homo sapiens
2213	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1948	CALQITWGSERRLGLDTSKD	Homo sapiens
2214	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2734	RGRRQSARNRSGPPEQPNE	Homo sapiens
2215	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2735	RNSRGPPEQPNEELG	Homo sapiens
2216	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2736	AQVREDVRPHTTVLR	Homo sapiens
2217	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2742	QLDQVPSRHPSPRE	Homo sapiens

2218	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2744	LDLSLRSSNSREQLDQV	Homo sapiens
2219	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1903	REEHHFMVDARNRSYPLYSC	Homo sapiens
2220	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1904	PGPAPGGEEAADPRASRR	Homo sapiens
2221	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1905	CRPSGSHKEAYSERPGGLL	Homo sapiens
2222	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1906	PSSGAPRPGRIPLRNGRVA	Homo sapiens
2223	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2018	FLGNDDIKTKKELVN	Homo sapiens
2224	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2019	QVTVYRDSKEKRDLRNFLK	Homo sapiens
2225	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2020	CERTKWGTFKINERTND	Homo sapiens
2226	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2021	SKYANGIEIQLKKAYER	Homo sapiens
2227	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2022	CIVVFIVRTERSLHAP	Homo sapiens
2228	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2023	KILALFWFDSREISFEAC	Homo sapiens
2229	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2024	CVHQDVMKLAYADILP	Homo sapiens
2230	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2027	RFGNSLHPVRVVMGD	Homo sapiens
2231	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2028	KTKQIRTRVLMFKISC	Homo sapiens
2232	194743	FLJ14454	LR77	1855	KTDENEQDGSASVDMVFSP	Homo sapiens
2233	194743	FLJ14454	LR77	1856	KDYQYPKSLDILSNVGC	Homo sapiens
2234	194743	FLJ14454	LR77	1857	KNLQTSDDGINNIDFDNN	Homo sapiens
2235	194743	FLJ14454	LR77	1858	SQNGNPNQWELDYRQEKIC	Homo sapiens
2236	194743	FLJ14454	LR77	1859	RPRLRVKMYNFLRSLPTLHE	Homo sapiens
2237	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1845	CNPSVPKQRVMKLTQM	Homo sapiens
2238	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1846	RLTRWRTRYKTIRINLG	Homo sapiens
2239	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1847	KDGVESCAFDLTSPDDVL	Homo sapiens
2240	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1848	LSGNFQKRLPQIQRRATE	Homo sapiens

2241	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1849	TIISRKKTVPIYIC	Homo sapiens
2242	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1907	RRATEKINNMGNTLKSHF	Homo sapiens
2243	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2089	CRIEGDTISQVMPPLIIVA	Homo sapiens
2244	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2090	RRHWAFGDIPCRVGLFTL	Homo sapiens
2245	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2091	CESFIMESANGWHDIM	Homo sapiens
2246	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2092	CSFKIVWSLRRRQQLARQAR	Homo sapiens
2247	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2093	RRRQQLARQARMKKATR	Homo sapiens
2248	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2094	TVSSACDPSVHGALH	Homo sapiens
2249	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2095	CSLKPQPGHSHKTQRPEEM	Homo sapiens
2250	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2096	CISVANSFQSQSDGGWD	Homo sapiens
2251	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2034	RTRKQHSEATNSSNRVFC	Homo sapiens
2252	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2035	RVISQISADNYKIHGDPSA	Homo sapiens
2253	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2036	TSSSARTSNAKPFHSD	Homo sapiens
2254	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2037	NGTRPGMASTKLSPWD	Homo sapiens
2255	194858	G Protein-Coupled Receptor Ls194858	LR84	1933	LGIAWDRRLRSPAGC	Homo sapiens
2256	194858	G Protein-Coupled Receptor Ls194858	LR84	1934	GERYMAVLRPLQPPGS	Homo sapiens
2257	194858	G Protein-Coupled Receptor Ls194858	LR84	1935	CRDEPSALARALTWRQAR	Homo sapiens
2258	194858	G Protein-Coupled Receptor Ls194858	LR84	1936	AAQRCLQGLWGASRD	Homo sapiens
2259	194858	G Protein-Coupled Receptor Ls194858	LR84	1937	RDSPGPSIAYHIPSSQSSVD	Homo sapiens
2260	194878	MrgX3 G Protein-Coupled	AAK91806.1	2748	ALFSRIHLDWKVLF	Homo sapiens

2261	194903	Receptor G Protein-Coupled Receptor GPCR83	ENSP00000198236	1991	CIAFKDIMPFSAGVGDER	Homo sapiens
2262	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1992	KAFEEAYARADKKAPRPC	Homo sapiens
2263	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1993	ETKIQWHGKDNQVPKSVCS	Homo sapiens
2264	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1994	CSYLGKDLPENYNEAK	Homo sapiens
2265	194904	WO00343334-hFB41A	LR114	2011	SDYDMPLEDEDEDVINS	Homo sapiens
2266	194904	WO00343334-hFB41A	LR114	2014	NPHGAHATSPFNFSY	Homo sapiens
2267	194905	G Protein-Coupled Receptor MGC7035	LR112	1986	ERALPRTYMASVYNTRHVC	Homo sapiens
2268	194905	G Protein-Coupled Receptor MGC7035	LR112	1987	CAKMQNAEAAADATLVF	Homo sapiens
2269	194905	G Protein-Coupled Receptor MGC7035	LR112	1988	DRDTGRLEPSAHRLLVATVC	Homo sapiens
2270	194905	G Protein-Coupled Receptor MGC7035	LR112	1989	RYMNGSFPSKLRLLMKKLPC	Homo sapiens
2271	194907	G Protein-Coupled Receptor 14273	LR116	2003	CARAAGDAPLRSLEQANRTR	Homo sapiens
2272	194907	G Protein-Coupled Receptor 14273	LR116	2004	VISYSKILQTTKASRKRL	Homo sapiens
2273	194907	G Protein-Coupled Receptor 14273	LR116	2005	TVSLAYSRSHQIRVSQQD	Homo sapiens
2274	194907	G Protein-Coupled Receptor 14273	LR116	2006	CTWFPEKGALTDTSVKRND	Homo sapiens
2275	194908	G Protein-coupled Receptor Gpcrb4	LR117	2007	TYGRDNGQLGERVARRDIC	Homo sapiens
2276	194908	G Protein-coupled Receptor Gpcrb4	LR117	2008	GETLPTLGPNQNMVTSEERQR	Homo sapiens
2277	194908	G Protein-coupled Receptor Gpcrb4	LR117	2009	RTSQSYTCNQECDNCLNAT	Homo sapiens
2278	194908	G Protein-coupled Receptor Gpcrb4	LR117	2010	RPQSHPRTPDDPKITVSC	Homo sapiens
2279	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2312	VARRQAKKIENTGSKT	Homo sapiens
2280	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2313	KVIVTGQVLKNSSA	Homo sapiens

2281	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2318	MSSNSSLLVAVQLC	Homo sapiens
2282	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2307	IAKQQAIEITSSKV	Homo sapiens
2283	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2314	MTSNFSQPVVQLC	Homo sapiens
2284	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2319	KUILSGDVLKAS	Homo sapiens
2285	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2570	SGDVLKASSSTISLFL	Homo sapiens
2286	194989	MigX4 G Protein-Coupled Receptor	AAK91807.1	2727	QDKPEVDKGGGQLPEESL	Homo sapiens
2287	194989	MigX4 G Protein-Coupled Receptor	AAK91807.1	2728	LNISHURKILVS	Homo sapiens
2288	194989	MigX4 G Protein-Coupled Receptor	AAK91807.1	2729	MDPTVPVFGTKL	Homo sapiens
2289	195015	G Protein-Coupled Receptor GPR82	AAL26482	2706	RYATLMQKDSQETT	Homo sapiens
2290	195015	G Protein-Coupled Receptor GPR82	AAL26482	2707	KIFYGHLLKKFRQPNF	Homo sapiens
2291	195015	G Protein-Coupled Receptor GPR82	AAL26482	2708	YSVIEATEGEESLC	Homo sapiens
2292	195015	G Protein-Coupled Receptor GPR82	AAL26482	2715	CTSIMEKDLTYSSVKR	Homo sapiens

SEQ ID NO:	LS_ID	Gene	Antibody Company Name
1	127	5-HT1A Receptor	Chemicon
1	127	5-HT1A Receptor	Research Diagnostics
1	127	5-HT1A Receptor	Santa Cruz
3	128	5-HT1B Receptor	Chemicon
3	128	5-HT1B Receptor	Research Diagnostics
3	128	5-HT1B Receptor	Santa Cruz
5	129	5-HT1D Receptor	Research Diagnostics
5	129	5-HT1D Receptor	Santa Cruz
11	132	5-HT2A Receptor	Calbiochem
11	132	5-HT2A Receptor	Research Diagnostics
13	133	5-HT2B Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Santa Cruz
21	139	5-HT7 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Alpha Diagnostic Int.
23	272	Adenosine A1 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Santa Cruz
25	273	Adenosine A2a Receptor	Alpha Diagnostic Int.
25	273	Adenosine A2a Receptor	Calbiochem
25	273	Adenosine A2a Receptor	Chemicon
25	273	Adenosine A2a Receptor	Santa Cruz
27	274	Adenosine A2b Receptor	Alpha Diagnostic Int.
27	274	Adenosine A2b Receptor	Chemicon
27	274	Adenosine A2b Receptor	Santa Cruz
29	275	Adenosine A3 Receptor	Alpha Diagnostic Int.
29	275	Adenosine A3 Receptor	Santa Cruz
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Alpha Diagnostic Int.
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Chemicon
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Research Diagnostics
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Santa Cruz
35	377	Alpha 1b-adrenoceptor	Research Diagnostics
35	377	Alpha 1b-adrenoceptor	Santa Cruz
37	379	Alpha 1c-adrenoceptor	Research Diagnostics
37	379	Alpha 1c-adrenoceptor	Santa Cruz
39	387	Alpha 2a-adrenoceptor	Calbiochem
39	387	Alpha 2a-adrenoceptor	Santa Cruz
41	388	Alpha 2b-adrenoceptor	Research Diagnostics
41	388	Alpha 2b-adrenoceptor	Santa Cruz
43	389	Alpha 2c-adrenoceptor	Research Diagnostics
43	389	Alpha 2c-adrenoceptor	Santa Cruz
45	599	Bradykinin B1 Receptor	Research Diagnostics
49	635	Beta-1 adrenoceptor	Calbiochem
49	635	Beta-1 adrenoceptor	Research Diagnostics

49	635	Beta-1 adrenoceptor	Santa Cruz
51	640	Beta-2 adrenoceptor	Research Diagnostics
51	640	Beta-2 adrenoceptor	Santa Cruz
53	643	Beta-3 adrenoceptor	Alpha Diagnostic Int.
53	643	Beta-3 adrenoceptor	Chemicon
53	643	Beta-3 adrenoceptor	Research Diagnostics
53	643	Beta-3 adrenoceptor	Santa Cruz
57	692	Bombesin Receptor Subtype-3	Alpha Diagnostic Int.
57	692	Bombesin Receptor Subtype-3	Chemicon
59	729	CXC Chemokine Receptor 5	Research Diagnostics
59	729	CXC Chemokine Receptor 5	Santa Cruz
61	735	C-C Chemokine Receptor 1	Calbiochem
61	735	C-C Chemokine Receptor 1	Capralogics
61	735	C-C Chemokine Receptor 1	Chemicon
61	735	C-C Chemokine Receptor 1	Research Diagnostics
61	735	C-C Chemokine Receptor 1	Santa Cruz
63	737	C-C Chemokine Receptor 3	Research Diagnostics
63	737	C-C Chemokine Receptor 3	Santa Cruz
65	738	C-C Chemokine Receptor 4	Capralogics
65	738	C-C Chemokine Receptor 4	Research Diagnostics
65	738	C-C Chemokine Receptor 4	Santa Cruz
67	741	C-C Chemokine Receptor 7	Research Diagnostics
67	741	C-C Chemokine Receptor 7	Santa Cruz
69	742	C-C Chemokine Receptor 8	Chemicon
70	742	C-C Chemokine Receptor 8	Chemicon
71	742	C-C Chemokine Receptor 8	Chemicon
73	752	CXC Chemokine Receptor 3	Research Diagnostics
73	752	CXC Chemokine Receptor 3	Santa Cruz
73	752	CXC Chemokine Receptor 3	Zymed
75	753	CXC Chemokine Receptor 4	Biosource
75	753	CXC Chemokine Receptor 4	Calbiochem
75	753	CXC Chemokine Receptor 4	Capralogics
75	753	CXC Chemokine Receptor 4	Chemicon
75	753	CXC Chemokine Receptor 4	eBioscience
75	753	CXC Chemokine Receptor 4	Research Diagnostics
75	753	CXC Chemokine Receptor 4	Santa Cruz
77	755	Complement Component 3a Receptor 1	Chemokine.com
79	758	Complement Component 5a Receptor 1	Santa Cruz
83	832	Cannabinoid Receptor 1	Alpha Diagnostic Int.
83	832	Cannabinoid Receptor 1	Biosource
83	832	Cannabinoid Receptor 1	Calbiochem
83	832	Cannabinoid Receptor 1	Cayman
83	832	Cannabinoid Receptor 1	Chemicon
83	832	Cannabinoid Receptor 1	Santa Cruz
85	833	Cannabinoid Receptor 2	Alpha Diagnostic Int.
85	833	Cannabinoid Receptor 2	Calbiochem
85	833	Cannabinoid Receptor 2	Cayman
85	833	Cannabinoid Receptor 2	Chemicon
85	833	Cannabinoid Receptor 2	Santa Cruz
97	1240	Dopamine Receptor D1	Alpha Diagnostic Int.
97	1240	Dopamine Receptor D1	Biogenesis

97	1240	Dopamine Receptor D1	Calbiochem
97	1240	Dopamine Receptor D1	Chemicon
97	1240	Dopamine Receptor D1	FabGennix through Abcam
97	1240	Dopamine Receptor D1	Research Diagnostics
97	1240	Dopamine Receptor D1	Santa Cruz
99	1241	Dopamine Receptor D5	Alpha Diagnostic Int.
99	1241	Dopamine Receptor D5	Biogenesis
99	1241	Dopamine Receptor D5	Calbiochem
99	1241	Dopamine Receptor D5	Chemicon
99	1241	Dopamine Receptor D5	Santa Cruz
101	1242	Dopamine Receptor D2	Alpha Diagnostic Int.
101	1242	Dopamine Receptor D2	Biogenesis
101	1242	Dopamine Receptor D2	Calbiochem
101	1242	Dopamine Receptor D2	Chemicon
101	1242	Dopamine Receptor D2	DPC Biermann/Acris
101	1242	Dopamine Receptor D2	FabGennix through Abcam
101	1242	Dopamine Receptor D2	Research Diagnostics
101	1242	Dopamine Receptor D2	Santa Cruz
103	1243	Dopamine Receptor D3	Alpha Diagnostic Int.
103	1243	Dopamine Receptor D3	Biogenesis
103	1243	Dopamine Receptor D3	Calbiochem
103	1243	Dopamine Receptor D3	Chemicon
103	1243	Dopamine Receptor D3	Research Diagnostics
103	1243	Dopamine Receptor D3	Santa Cruz
103	1243	Dopamine Receptor D3	Zymed
105	1244	Dopamine Receptor D4	Alpha Diagnostic Int.
105	1244	Dopamine Receptor D4	Biogenesis
105	1244	Dopamine Receptor D4	Calbiochem
105	1244	Dopamine Receptor D4	Chemicon
105	1244	Dopamine Receptor D4	DPC Biermann/Acris
105	1244	Dopamine Receptor D4	Santa Cruz
107	1267	Opioid Receptor, delta 1 (OPRD1)	Biosource
107	1267	Opioid Receptor, delta 1 (OPRD1)	Calbiochem
107	1267	Opioid Receptor, delta 1 (OPRD1)	DPC Biermann/Acris
107	1267	Opioid Receptor, delta 1 (OPRD1)	Santa Cruz
113	1486	Endothelin B Receptor	Biogenesis
113	1486	Endothelin B Receptor	Capralogics
113	1486	Endothelin B Receptor	DPC Biermann/Acris
113	1486	Endothelin B Receptor	Fitzgerald Industries Int.
113	1486	Endothelin B Receptor	Research Diagnostics
115	1488	Endothelin A Receptor	Biogenesis
115	1488	Endothelin A Receptor	Capralogics
115	1488	Endothelin A Receptor	DPC Biermann/Acris
115	1488	Endothelin A Receptor	Fitzgerald Industries Int.
115	1488	Endothelin A Receptor	Research Diagnostics
117	1598	Calcium-Sensing Receptor (CASR)	Chemicon
117	1598	Calcium-Sensing Receptor (CASR)	DPC Biermann/Acris

121	1681	Follicle Stimulating Hormone Receptor	Biogenesis
121	1681	Follicle Stimulating Hormone Receptor	DPC Biermann/Acris
121	1681	Follicle Stimulating Hormone Receptor	Santa Cruz
125	1762	Galanin Receptor GalR1	Alpha Diagnostic Int.
135	1925	Gonadotropin-Releasing Hormone Receptor	Biocarta
135	1925	Gonadotropin-Releasing Hormone Receptor	Lab Vision Corporation/NeoMarkers
135	1925	Gonadotropin-Releasing Hormone Receptor	Research Diagnostics
135	1925	Gonadotropin-Releasing Hormone Receptor	Santa Cruz
139	1951	Growth Hormone Secretagogue Receptor	Santa Cruz
143	2120	Histamine H1 Receptor	Alpha Diagnostic Int.
143	2120	Histamine H1 Receptor	Chemicon
145	2121	Histamine H2 Receptor	Alpha Diagnostic Int.
145	2121	Histamine H2 Receptor	Chemicon
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Biosource
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Calbiochem
147	2783	Opioid Receptor, kappa 1 (OPRK1)	DPC Biermann/Acris
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Santa Cruz
151	2976	Lysophosphatidic Acid Receptor Edg2	Exalpha Biologicals
155	3057	Melanocortin 3 Receptor (MC3R)	Alpha Diagnostic Int.
155	3057	Melanocortin 3 Receptor (MC3R)	Chemicon
155	3057	Melanocortin 3 Receptor (MC3R)	Research Diagnostics
155	3057	Melanocortin 3 Receptor (MC3R)	Santa Cruz
157	3058	Melanocortin 4 Receptor (MC4R)	Alpha Diagnostic Int.
157	3058	Melanocortin 4 Receptor (MC4R)	Chemicon
157	3058	Melanocortin 4 Receptor (MC4R)	Research Diagnostics
157	3058	Melanocortin 4 Receptor (MC4R)	Santa Cruz
159	3059	Melanocortin 5 Receptor (MC5R)	Alpha Diagnostic Int.
159	3059	Melanocortin 5 Receptor (MC5R)	Chemicon
159	3059	Melanocortin 5 Receptor (MC5R)	Research Diagnostics

159	3059	Melanocortin 5 Receptor (MC5R)	Santa Cruz
161	3061	Melanocortin 1 Receptor (MC1R)	Alpha Diagnostic Int.
161	3061	Melanocortin 1 Receptor (MC1R)	Chemicon
161	3061	Melanocortin 1 Receptor (MC1R)	Research Diagnostics
161	3061	Melanocortin 1 Receptor (MC1R)	Santa Cruz
169	3093	Metabotropic Glutamate Receptor 1	Chemicon
171	3094	Metabotropic Glutamate Receptor 2	Chemicon
173	3095	Metabotropic Glutamate Receptor 3	Chemicon
175	3096	Metabotropic Glutamate Receptor 4	Zymed
177	3097	Metabotropic Glutamate Receptor 5	Chemicon
183	3100	Metabotropic Glutamate Receptor 8	Chemicon
185	3212	Opioid mu-type Receptor	Biosource
185	3212	Opioid mu-type Receptor	Calbiochem
185	3212	Opioid mu-type Receptor	Chemicon
185	3212	Opioid mu-type Receptor	DPC Biermann/Acris
185	3212	Opioid mu-type Receptor	Santa Cruz
187	3223	Muscarinic acetylcholine Receptor M1	Biogenesis
187	3223	Muscarinic acetylcholine Receptor M1	Calbiochem
187	3223	Muscarinic acetylcholine Receptor M1	Chemicon
187	3223	Muscarinic acetylcholine Receptor M1	Santa Cruz
189	3224	Muscarinic acetylcholine Receptor M2	Biogenesis
189	3224	Muscarinic acetylcholine Receptor M2	Calbiochem
189	3224	Muscarinic acetylcholine Receptor M2	Chemicon
189	3224	Muscarinic acetylcholine Receptor M2	Santa Cruz
191	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
192	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
191	3226	Muscarinic acetylcholine Receptor M4	Chemicon
192	3226	Muscarinic acetylcholine Receptor M4	Chemicon
191	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz

192	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz
194	3227	Muscarinic Acetylcholine Receptor M5	Biogenesis
194	3227	Muscarinic Acetylcholine Receptor M5	Santa Cruz
200	3404	Neuropeptide Y Receptor Type 2	Biogenesis
202	3405	Neuropeptide Y Receptor Type 4	Biogenesis
206	3408	Neurotensin Receptor Type 1	Santa Cruz
208	3452	Opiate Receptor-Like 1 (OPRL1)	Santa Cruz
214	3582	Oxytocin Receptor	Santa Cruz
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Chemicon
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Zymed
218	3595	Purinergic Receptor P2Y1	Chemicon
218	3595	Purinergic Receptor P2Y1	Zymed
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Biocarta
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Lab Vision Corporation/NeoMarkers
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Santa Cruz
236	3846	Sphingolipid Receptor Edg1	Exalpa Biologicals
238	3847	Sphingolipid Receptor Edg3	Exalpa Biologicals
240	3848	C-C Chemokine Receptor 9	Research Diagnostics
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemicon
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemokine.com
248	3852	CX3C Chemokine Fractalkine Receptor 1	eBioscience
250	3853	G Protein-Coupled Receptor GPR15	Santa Cruz
264	3860	G Protein-Coupled Receptor SLC/MCH1	Alpha Diagnostic Int.
264	3860	G Protein-Coupled Receptor SLC/MCH1	Santa Cruz
295	3927	Prostaglandin E Receptor EP4	Cayman
299	4051	Proteinase-Activated Receptor 2	Research Diagnostics
299	4051	Proteinase-Activated Receptor 2	Santa Cruz
301	4052	Proteinase-Activated Receptor 3	Research Diagnostics
301	4052	Proteinase-Activated Receptor 3	Santa Cruz
305	4254	Rhodopsin	Biocarta
305	4254	Rhodopsin	DPC Biermann/Acris
311	4480	Somatostatin Receptor Type 1	Santa Cruz

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313	4481	Somatostatin Receptor Type 2	Biogenesis
313	4481	Somatostatin Receptor Type 2	Santa Cruz
315	4482	Somatostatin Receptor Type 3	Santa Cruz
317	4483	Somatostatin Receptor Type 4	Santa Cruz
319	4484	Somatostatin Receptor Type 5	Santa Cruz
321	4552	Tachykinin Receptor 1	Santa Cruz
323	4687	Thrombin Receptor	DPC Biermann/Acris
323	4687	Thrombin Receptor	Research Diagnostics
323	4687	Thrombin Receptor	Santa Cruz
325	4734	Thyrotropin Releasing Hormone Receptor	Santa Cruz
327	4944	Angiotensin II Type 1 Receptor	Alpha Diagnostic Int.
327	4944	Angiotensin II Type 1 Receptor	Biocarta
327	4944	Angiotensin II Type 1 Receptor	Biogenesis
327	4944	Angiotensin II Type 1 Receptor	Capralogics
327	4944	Angiotensin II Type 1 Receptor	Chemicon
327	4944	Angiotensin II Type 1 Receptor	DPC Biermann/Acris
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Lab Vision Corporation/NeoMarkers
327	4944	Angiotensin II Type 1 Receptor	Santa Cruz
329	4946	Angiotensin II Type 2 Receptor	Alpha Diagnostic Int.
329	4946	Angiotensin II Type 2 Receptor	DPC Biermann/Acris
329	4946	Angiotensin II Type 2 Receptor	Santa Cruz
331	5072	Pyrimidinergic Receptor P2Y4	Chemicon
333	5117	Vasopressin V1A Receptor	Chemicon
335	5118	Vasopressin V1B Receptor	Alpha Diagnostic Int.
335	5118	Vasopressin V1B Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Alpha Diagnostic Int.
337	5119	Vasopressin V2 Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Research Diagnostics
347	6031	SIV/HIV Receptor BONZO	Santa Cruz
349	6204	Lysophosphatidic Acid Receptor Edg4	Exalpa Biologicals
351	6213	C-C Chemokine Receptor 5	Calbiochem
351	6213	C-C Chemokine Receptor 5	Capralogics
351	6213	C-C Chemokine Receptor 5	Chemicon
351	6213	C-C Chemokine Receptor 5	Research Diagnostics
351	6213	C-C Chemokine Receptor 5	Santa Cruz
361	6853	Purinergic Receptor P2Y11	Zymed

365	7221	Galanin Receptor GalR2	Alpha Diagnostic Int.
367	7246	Orexin Receptor 1	Alpha Diagnostic Int.
369	7247	Orexin Receptor 2	Alpha Diagnostic Int.
371	8436	Platelet-Activating Factor Receptor	Cayman
371	8436	Platelet-Activating Factor Receptor	Santa Cruz
377	9421	Neuropeptide Y Receptor Type 1	Biogenesis
377	9421	Neuropeptide Y Receptor Type 1	DPC Biermann/Acris
379	9834	Corticotropin releasing factor Receptor 1	Research Diagnostics
379	9834	Corticotropin releasing factor Receptor 1	Santa Cruz
385	14198	Interleukin-8 Receptor B	Biosource
385	14198	Interleukin-8 Receptor B	R&D Systems
385	14198	Interleukin-8 Receptor B	Research Diagnostics
385	14198	Interleukin-8 Receptor B	Santa Cruz
387	14641	Calcitonin Receptor	Santa Cruz
389	16041	C-C Chemokine Receptor 6	Research Diagnostics
389	16041	C-C Chemokine Receptor 6	Santa Cruz
391	16599	Smoothened	Research Diagnostics
391	16599	Smoothened	Santa Cruz
397	17535	Gaba(b) Receptor 1	Alpha Diagnostic Int.
397	17535	Gaba(b) Receptor 1	Calbiochem
397	17535	Gaba(b) Receptor 1	Chemicon
397	17535	Gaba(b) Receptor 1	Santa Cruz
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	Santa Cruz
435	54053	Gaba(b) Receptor 2	Alpha Diagnostic Int.
435	54053	Gaba(b) Receptor 2	Chemicon
439	56923	Muscarinic acetylcholine Receptor M3	Biogenesis
439	56923	Muscarinic acetylcholine Receptor M3	Santa Cruz
457	152201	Thyrotropin Receptor	DPC Biermann/Acris
457	152201	Thyrotropin Receptor	Santa Cruz
459	152245	C-C Chemokine Receptor 2	Research Diagnostics
459	152245	C-C Chemokine Receptor 2	Santa Cruz
461	152299	Interleukin-8 Receptor A	Biosource
462	152299	Interleukin-8 Receptor A	Biosource
461	152299	Interleukin-8 Receptor A	R&D Systems
462	152299	Interleukin-8 Receptor A	R&D Systems
461	152299	Interleukin-8 Receptor A	Research Diagnostics
462	152299	Interleukin-8 Receptor A	Research Diagnostics
461	152299	Interleukin-8 Receptor A	Santa Cruz
462	152299	Interleukin-8 Receptor A	Santa Cruz
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	Exalpa Biologicals
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	Exalpa Biologicals
472	160055	Motilin Receptor (GPR38)	Santa Cruz

503	160228	T-Cell Death-Associated Gene 8 (GPR65)	Santa Cruz
507	160312	Sphingolipid Receptor Edg5	Exalpha Biologicals
515	160329	Proteinase-Activated Receptor 4	Santa Cruz
535	161214	Galanin Receptor GalR3	Alpha Diagnostic Int.
537	161221	Urotensin-II Receptor (GPR14)	Santa Cruz
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Cayman
548	177191	Histamine H3 Receptor	Alpha Diagnostic Int.
548	177191	Histamine H3 Receptor	Chemicon
552	180956	Lysophosphatidic Acid Receptor Edg7	Exalpha Biologicals
562	189900	Sphingolipid Receptor Edg8	Exalpha Biologicals
628	190774	Histamine H4 Receptor	Alpha Diagnostic Int.
628	190774	Histamine H4 Receptor	Chemicon
636	190955	Leukotriene B4 Receptor BLT1	Cayman